NACOmatic

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INSTRUMENT APPROACH PROCEDURE CHARTS

A IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME — ALTERNATE MINIMUMS

ABERDEEN PROVING GROUND, MD

PHILLIPS AAF (KAPG) **NDB Rwy 22**
VOR Rwy 22
VOR/DME Rwy 22
RNAV (GPS) Rwy 22
NA when control tower closed.

ABINGDON, VA

VIRGINIA HIGHLANDS **LOC Rwy 24**
RNAV (GPS) Rwy 6
RNAV (GPS) Rwy 24
VOR/DME-B
NA when local weather not available.
Category C, 800-2¼, Category D, 800-2½.

ANNAPOLIS, MD

LEE **RNAV (GPS)-A**
NA when local weather not available.

BALTIMORE, MD

BALTIMORE-WASHINGTON INTL
THURGOOD MARSHALL **ILS or LOC Rwy 15L[1]**
ILS or LOC Rwy 28[2]
VOR Rwy 10[3]
[1]ILS, LOC, Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.
[2]ILS, Categories A,B,C, 700-2; Category D 700-2¼; LOC, Category D, 800-2¼.
[3]Categories A,B,1200-2; Category C,D 1200-3.

MARTIN STATE **ILS or LOC Rwy 33[123]**
LOC Rwy 15[2]
VOR/DME or TACAN Z Rwy 15[4]
[1]ILS, Category D, 700-2.
[2]NA when control tower closed.
[3]NA when local weather not available.
[4]Categories A,B, 900-2; Category C, 900-2½; Category D 900-2¾.

BLACKSBURG, VA

VIRGINIA TECH/MONTGOMERY EXECUTIVE **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

NAME — ALTERNATE MINIMUMS

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-ALBEMARLE**ILS or LOC Rwy 3[12]**
RNAV (GPS) Rwy 3[34]
RNAV (GPS) Y Rwy 21[35]
RNAV (GPS) Z Rwy 21[34]
[1]NA when control tower closed.
[2]ILS, Categories A, B, C, 800-2; Category D, 800-2½. LOC, Category D, 800-2½.
[3]NA when local weather not available.
[4]Category D, 1000-3.
[5]Category C, 800-2¼; Category D, 1000-3.

COLLEGE PARK, MD

COLLEGE PARK **RNAV (GPS) Rwy 15**
NA when local weather not available.

CULPEPER, VA

CULPEPER RGNL **LOC Rwy 4[1]**
RNAV (GPS) Rwy 4[2]
RNAV (GPS) Rwy 22[2]
VOR-A[2]
[1]NA when FBO closed.
[2]NA when local weather not available.

DANVILLE, VA

DANVILLE RGNL **ILS or LOC Rwy 2**
RNAV (GPS) Rwy 2
RNAV (GPS) Rwy 20
VOR Rwy 2
VOR Rwy 20[1]
NA when local weather not available.
[1]Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

DUBLIN, VA

NEW RIVER VALLEY **VOR or GPS-A**
Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

EASTON, MD

EASTON/
NEWNAM FIELD **ILS or LOC/DME Rwy 4[1]**
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 33
NA when local weather not available.
[1]ILS,LOC, NA when control tower closed.

EMPORIA, VA

EMPORIA-
GREENSVILLE RGNL **RNAV (GPS) Rwy 15**
NA when local weather not available.

FARMVILLE, VA

FARMVILLE RGNL **NDB Rwy 3[1]**
RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 21
NA when local weather not available.
[1]Categories A, B, 900-2; Category C, 900-2¼.

FELKER AAF (KFAF)

FORT EUSTIS, VA..... ORIG 08297
NDB Rwy 14
COPTER NDB Rwy 14
RNAV (GPS) Rwy 14
COPTER RNAV (GPS) Rwy 14
NA when control tower closed.

FORT MEADE (ODENTON), MD

TIPTON **RNAV (GPS) Rwy 28**
NA when local weather not available.

FREDERICK, MD

FREDERICK MUNI **RNAV (GPS) Rwy 5[1][2]**
RNAV (GPS) Y Rwy 23[1]
RNAV (GPS) Z Rwy 23[3]
[1]Category D, 800-2½.
[2]NA when local weather not available.
[3]Categories A,B,C,D, 800-2½.

GAITHERSBURG, MD

MONTGOMERY COUNTY
AIRPARK **NDB Rwy 14**
Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

GALAX/HILLSVILLE, VA

TWIN COUNTY **RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19
NA when local weather not available.

GEORGETOWN, DE

SUSSEX COUNTY **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 22
NA when local weather not available.

NAME ALTERNATE MINIMUMS

HAGERSTOWN, MD

HAGERSTOWN RGNL-RICHARD A.
HENSON FIELD **ILS or LOC Rwy 9[1]**
ILS or LOC Rwy 27[1]
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 27
VOR Rwy 9
NA when local weather not available.
[1]NA when control tower closed.

HOT SPRINGS, VA

INGALLS FIELD **RNAV (GPS) Rwy 7[1]**
RNAV (GPS) Rwy 25[2]
NA when local weather not available.
[1]Categories, A, B, 1000-2; Category C, 1000-2¾, Category D, 1000-3.
[2]Category C, 800-2¼; Category D, 800-2½.

LEESBURG, VA

LEESBURG EXECUTIVE **RNAV (GPS) Rwy 17**
LPV, Category D, 700-2.

LEONARDTOWN, MD

ST. MARY'S COUNTY
RGNL **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 29
NA when local weather not available.

LOUISA, VA

LOUISA COUNTY/
FREEMAN FIELD **RNAV (GPS) Rwy 27**
NA when local weather not available.

LYNCHBURG, VA

LYNCHBURG RGNL/PRESTON GLENN
FIELD **ILS or LOC Rwy 4[1][2]**
RNAV (GPS) Rwy 4[3]
RNAV (GPS) Rwy 22[3]
VOR/DME Rwy 22[4]
VOR Rwy 4[3]
[1]ILS,LOC, NA when control tower closed.
[2]ILS,Categories A,B, 800-2;Category C,900-2½, Category D, 900-2¾. LOC,Category C,900-2½, Category D, 900-2¾.
[3]Category C, 900-2½; Category D, 900-2¾.
[4]Categories A,B, 900-2; Category C, 900-2½, Category D, 900-2¾.

MANASSAS, VA

MANASSAS RGNL/HARRY P DAVIS
FIELD **ILS or LOC Rwy 16L,**700-2
RNAV (GPS) Rwy 16L
NA when control tower closed.

MARION/WYTHEVILLE, VA

MOUNTAIN EMPIRE **RNAV (GPS) Rwy 26**
NA when local weather not available.
Category C, 800-2¼.

NAME ALTERNATE MINIMUMS

MARTINSVILLE, VA

BLUE RIDGE **RNAV (GPS) Rwy 30**
NA when local weather not available.
Categories A,B, 1000-2; Categories C,D, 1000-3.

MELFA, VA

ACCOMACK COUNTY **RNAV (GPS) Rwy 3**
RNAV (GPS) Rwy 21
NA when local weather not available.

MIDDLETOWN, DE

SUMMIT **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

NEWPORT NEWS, VA

NEWPORT NEWS/WILLIAMSBURG INTL **ILS or LOC Rwy 7[12]**
ILS or LOC Rwy 25[1]
LOC/DME Rwy 20[12]
RNAV (GPS) Rwy 7[2]
RNAV (GPS) Rwy 20[2]
[1]NA when control tower closed.
[2]NA when local weather not available.

OCEAN CITY, MD

OCEAN CITY MUNI **RNAV (GPS) Rwy 2[1]**
RNAV (GPS) Rwy 32[12]
VOR-A[3]
[1]NA when local weather not available.
[2]Category D, 800-2¼.
[3]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

PETERSBURG, VA

DINWIDDIE COUNTY **RNAV (GPS) Rwy 5**
RNAV (GPS) Rwy 23
VOR Rwy 23
NA when local weather not available.

RICHLANDS, VA

TAZEWELL COUNTY **LOC/DME Rwy 25**
RNAV (GPS) Rwy 25
NA when local weather not available.

RICHMOND, VA

RICHMOND INTL **ILS or LOC Rwy 16**
ILS, Categories A,B, 900-2, Category C, 900-2¾, Category D, 900-3.
LOC, Categories A,B, 900-2, Category C, 900-2¾, Category D, 900-3.

NAME ALTERNATE MINIMUMS

RICHMOND/ASHLAND, VA

HANOVER COUNTY MUNI **RNAV (GPS) Rwy 16**
VOR Rwy 16[1]
NA when local weather not available.
[1]Category C, 800-2¼, Category D, 800-2½.

ROANOKE, VA

ROANOKE RGNL/WOODRUM FIELD **ILS or LOC Rwy 33[12]**
LDA Rwy 6[2]
VOR/NDB Rwy 33[3]
[1]ILS, Categories A,B, 800-2; Category C, 800-2¼; Category D, 800-2½. LOC, Category C, 800-2¼; Category D, 800-2½.
[2]Categories A,B, 1600-2; Categories C,D, 1600-3.
[3]Categories A,B, 1400-2; Categories C,D, 1400-3.

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL **ILS or LOC Rwy 32**
RNAV (GPS) Rwy 32
VOR Rwy 23[1]
NA when local weather not available.
[1]Categories A, B, 1100-2; Categories C, D, 1100-3.

STAUNTON-WAYNESBORO-HARRISONBURG, VA

SHENANDOAH VALLEY RGNL **ILS or LOC Rwy 5[1]**
NDB Rwy 5
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
NA when local weather not available.
[1]ILS, Category D, 700-2.

SUFFOLK, VA

SUFFOLK EXECUTIVE **RNAV (GPS) Rwy 4**
RNAV (GPS) Rwy 7
NA when local weather not available.

WALLOPS ISLAND, VA

WALLOPS FLIGHT FACILITY **VOR/DME or TACAN Rwy 10**
Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.

NAME ALTERNATE MINIMUMS

WASHINGTON, DC

WASHINGTON
DULLES INTL **ILS or LOC/DME Rwy 1C[1]**
ILS or LOC/DME Rwy 1L[1]
ILS or LOC/DME Rwy 12[1]
ILS or LOC/DME Rwy 19C[1]
ILS or LOC/DME Rwy 19R[1]
ILS or LOC Rwy 1R[1]
ILS or LOC Rwy 19L[1]
RNAV (GPS) Y Rwy 19R[2]

[1]ILS, Categories A, B, C, D, 700-2.
[2]Category D, 800-2¼.

RONALD REAGAN
WASHINGTON NATIONAL **ILS Rwy 1[1]**
LDA/DME Rwy 19[2]
RNAV (GPS) RWY 33[3]
ROSSLYN LDA Rwy 19, 1100-3
VOR/DME or GPS Rwy 15[4]
VOR/DME or GPS Rwy 19[5]
VOR Rwy 1[2]

[1]ILS, Categories A, B,C, 700-2; Category D, 700-2¼. LOC, Category D, 800-2¼.
[2]Category D, 800-2¼.
[3]Categories A,B,C,D, 800-2½.
[4]Categories A,B, 1000-2;Category C, 1000-2¾; Category D, 1000-3.
[5]Categories A,B, 1000-2; Categories C,D, 1000-3.

WEST POINT, VA

MIDDLE
PENINSULA RGNL **RNAV (GPS) Rwy 10**
VOR-A

NA when local weather not available.

NAME ALTERNATE MINIMUMS

WESTMINSTER, MD

CARROLL COUNTY RGNL/
JACK B POAGE FIELD ... **RNAV (GPS) Rwy 34**

NA when local weather not available.

WILMINGTON, DE

NEW CASTLE **ILS or LOC Rwy 1[12]**
RNAV (GPS) Rwy 1[2]
RNAV (GPS) Rwy 9[2]
RNAV (GPS) Rwy 19[2]
RNAV (GPS) Rwy 27[2]
VOR Rwy 1[23]
VOR Rwy 27[3]

[1]NA when contol tower closed.
[2]NA when local weather not available.
[3]Category D, 800-2¼.

WINCHESTER, VA

WINCHESTER RGNL **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A

NA when local weather not available.

WISE,VA

LONESOME PINE **LOC/DME Rwy 24[12]**
RNAV (GPS) Rwy 6[12]
RNAV (GPS) Rwy 24[3]

[1]NA when local weather not available.
[2]Category D, 800-2¼.
[3]Category C, 800-2¼; Category D, 900-2¾.

ANDREWS AFB (KADW), (CAMP SPRINGS) MD (09127 USAF)

RADAR - (E) 113.1T 124.0 128.35 257.2 286.6 301.5 316.7 335.5 360.8 379.2 **ELEV 280**

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	1L[1]		AB	**760**/24	500	(500-½)
			C	**760**/40	500	(500-¾)
			D	**760**/50	500	(500-1)
			E	**760**/60	500	(500-1¼)
	19R[4]		AB	**780**/24	507	(500-½)
			CD	**780**/50	507	(500-1)
			E	**780**/60	507	(500-1¼)
	19L[2]		ABC	**720**/40	440	(500-¾)
			DE	**720**/50	440	(500-1)
	1R[1]		ABC	**760**/40	495	(500-¾)
			D	**760**/50	495	(500-1)
			E	**760**/60	495	(500-1¼)
CIR[3]	19L		A	**720**-1	440	(500-1)
			B	**740**-1	460	(500-1)
			C	**740**-1½	460	(500-1½)
			DE	**840**-2	560	(600-2)
	19R		AB	**780**-1	500	(500-1)
			C	**780**-1½	500	(500-1½)
			DE	**840**-2	560	(600-2)
	1L, 1R		AB	**760**-1	480	(500-1)
			C	**760**-1½	480	(500-1½)
			DE	**840**-2	560	(600-2)

[1]When ALS inop, increase CAT AB RVR 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles and CAT E vis to 1¾ miles. [2]When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,CAT C RVR to 60 and vis to 1¼ miles and CAT DE vis to 1½ miles. [3]Circling not authorized W of Rwy 1L-19R. [4]When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD vis to 1½.

DAVISON AAF (KDAA), VA (Ft. Belvoir) (Amdt 11, 10098 USA) ELEV 73

RADAR[1] - (E) 118.85 119.95 248.5x 265.6 NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR	32	3.0°/34/689	ABCD	**346**/50	280	(300-1)
	14	3.0°/59/1114	ABCD	**642**-2	590	(600-2)

When control tower clsd procedure NA.
[1]Opr 1100-2300Z++ wkd excld hol, R-IFF SIF svc not avbl.

NORFOLK NS (KNGU), (CHAMBERS FIELD), VA (10098 USN) ELEV 17

RADAR - (E) 119.2x 120.2x 279.525 322.525 335.8 353.55

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1]	10[2 3]	3.0°/50/948	ABCDE	**117**-¼	100	(100-¼)
	28[4]	3.0°/36/682	ABCDE	**265**-¾	250	(300-¾)
COPTER PAR[1]	10[2 3]	3.0°/50/948	COPTER	**117**-¼	100	(100-¼)
	28[4]	3.0°/36/682	COPTER	**265**-¾	250	(300-¾)
PAR W/O GS[1]	28[5]		ABCDE	**460**-1	445	(500-1)
	10[6]		ABC	**460**-¾	443	(500-¾)
			DE	**460**-1	443	(500-1)
ASR[1]	10[7]		AB	**520**-¾	503	(600-¾)
			CD	**520**-1	503	(600-1)
			E	**520**-1¼	503	(600-1¼)
	28[6]		ABC	**460**-1	445	(500-1)
			DE	**460**-1¼	445	(500-1¼)
CIR ASR[8 9]	10, 28		AB	**520**-1¼	503	(600-1¼)
			C	**520**-1½	503	(600-1½)
			DE	**580**-2	563	(600-2)
CIR PAR W/O GS[8 9]	10, 28		AB	**520**-1¼	503	(600-1¼)
			C	**520**-1½	503	(600-1½)
			DE	**580**-2	563	(600-2)

[1]No-NOTAM preventive maint Mon 1200-1800Z++. [2]When ALS inop, increase vis CAT ABCDE to ½ mile. [3]PAPI RRP and PAR RPI are not coincidental. [4]When ALS inop, increase vis CAT ABCDE to 1 mile. [5]When ALS inop, increase vis CAT ABCDE to 1¼ miles. [6]When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. [7]When ALS inop, increase vis CAT AB to 1¼ miles, CAT CD to 1½ miles, CAT E to 1¾ miles. [8]CAT E cir not authorized south of Rwy 10-28. [9]Norfolk NS Heliport lctd 1 NM NW, use caution in cir apch.

OCEANA NAS (KNTU), (APOLLO SOUCEK FIELD) VA (09351 USN) ELEV 23

RADAR - (E) 124.825 310.8 328.4 346.4 348.75 352.1 363.1

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[8]	5R[1]	3.0°/36/686	ABCDE	**120**-¼	100	(100-¼)
	23L[1]	3.0°/42/809	ABCDE	**122**-¼	100	(100-¼)
	5L	3.0°/40/753	ABCDE	**121**-½	100	(100-½)
	23R	3.0°/44/841	ABCDE	**121**-½	100	(100-½)
	32L[1]	3.0°/41/782	ABCDE	**123**-¼	100	(100-¼)
	14R	3.0°/38/711	ABCDE	**272**-1	250	(300-1)
PAR W/O GS[8]	14R		ABCDE	**360**-1¼	338	(400-1¼)
	5R[2]		ABCD	**420**-¾	400	(400-¾)
			E	**420**-1	400	(400-1)
	5L		ABCD	**420**-1¼	399	(400-1¼)
			E	**420**-1½	399	(400-1½)
	32L[4]		ABCDE	**360**-¾	337	(400-¾)
	23L[3]		ABC	**460**-¾	438	(500-¾)
			DE	**460**-1	438	(500-1)
	14R		ABCDE	**300**-1¼	278	(300-1¼)
	23R		ABC	**460**-1¼	439	(500-1¼)
			DE	**460**-1½	439	(500-1½)
PAR SIDESTEP[8]	32R		AB	**360**-1¼	339	(400-1¼)
			C	**360**-1½	339	(400-1½)
			DE	**360**-2	339	(400-2)
	14L		AB	**360**-1¼	340	(400-1¼)
			C	**360**-1½	340	(400-1½)
			DE	**360**-2	340	(400-2)
	5L		ABC	**420**-1½	399	(400-1½)
			DE	**420**-2	399	(400-2)
	23L		ABC	**460**-1½	438	(500-1½)
			DE	**460**-2	438	(500-2)
	23R		ABC	**460**-1½	439	(500-1½)
			DE	**460**-2	439	(500-2)
PAR W/O GS SIDESTEP[8]	5L		AB	**420**-1¼	399	(400-1¼)
			C	**420**-1½	399	(400-1½)
			DE	**420**-2	399	(400-2)
	32R		AB	**360**-1¼	339	(400-1¼)
			C	**360**-1½	339	(400-1½)
			DE	**360**-2	339	(400-2)
	14L		AB	**360**-1¼	340	(400-1¼)
			C	**360**-1½	340	(400-1½)
			DE	**360**-2	340	(400-2)
	23L		AB	**460**-1¼	438	(500-1¼)
			C	**460**-1½	438	(500-1½)
			DE	**460**-2	438	(500-2)
	23R		AB	**460**-1¼	439	(500-1¼)
			C	**460**-1½	439	(500-1½)
			DE	**460**-2	439	(500-2)

OCEANA NAS (KNTU), (Continued)

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR	5R[5]		AB	**420**-½	400	(400-½)
			CD	**420**-¾	400	(400-¾)
			E	**420**-1	400	(400-1)
	5L		ABC	**400**-1	379	(400-1)
			DE	**400**-1¼	379	(400-1¼)
	32L[6]		AB	**440**-½	417	(500-½)
			CD	**440**-¾	417	(500-¾)
			E	**440**-1	417	(500-1)
	23L[7]		AB	**460**-½	438	(500-½)
			C	**460**-¾	438	(500-¾)
			DE	**460**-1	438	(500-1)
	14R		AB	**460**-1	438	(500-1)
			C	**460**-1¼	438	(500-1¼)
			DE	**460**-1½	438	(500-1½)
	14L		AB	**460**-1	440	(500-1)
			C	**460**-1¼	440	(500-1¼)
			DE	**460**-1½	440	(500-1½)
	23R		AB	**460**-1	439	(500-1)
			C	**460**-1¼	439	(500-1¼)
			DE	**460**-1½	439	(500-1½)
	32R		AB	**440**-1	419	(500-1)
			CD	**440**-1¼	419	(500-1¼)
			E	**440**-1½	419	(500-1½)
CIR	All Rwy		AB	**480**-1	457	(500-1)
ASR			C	**480**-1½	457	(500-1½)
			D	**580**-2	557	(600-2)
			E	**620**-2	597	(600-2)
CIR	All Rwy		ABC	**480**-1¾	457	(500-1¾)
PAR			D	**580**-2	557	(600-2)
			E	**620**-2¼	597	(600-2¼)
CIR	All Rwy		AB	**480**-1¼	457	(500-1¼)
PAR W/O GS			C	**480**-1½	457	(500-1½)
			D	**580**-2	558	(600-2)
			E	**620**-2	598	(600-2)

[1]When ALS inop, increase vis CAT ABCDE to ½ mile. [2]When ALS inop, increase vis CAT ABCD to 1¼ miles, CAT E to 1½ miles. [3]When ALS inop, increase CAT ABC to 1¼ miles, CAT DE to 1½ miles. [4]When ALS inop, increase vis CAT ABCDE to 1¼ miles. [5]When ALS inop, increase vis CAT ABC to 1 mile, CAT D to 1¼ miles, CAT E to 1½ miles. [6]When ALS inop, increase vis CAT AB to 1 mile, CAT CD to 1¼ miles, CAT E to 1½ miles. [7]When ALS inop, increase vis CAT ABC to 1 mile, CAT D to 1¼ miles, CAT E to 1½ miles. [8]No-NOTAM preventive maintenance TUE 1030Z-1430Z++.

PATUXENT RIVER NAS (KNHK), (TRAPNELL FLD), MD (09267 USN) ELEV 39

RADAR - (E) 120.05 121.0 135.025 250.3 281.8 301.2 305.2 318.8 348.0 362.6

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1]	6[2]	3.0°/46/971	ABCDE	**139**-¼	100	(100-¼)
	24	3.0°/43/805	ABCDE	**120**-½	100	(100-½)
	14	3.0°/37/735	ABCDE	**127**-½	100	(100-½)
	32	3.0°/48/892	ABCDE	**268**-1	250	(300-1)
PAR W/O GS	6[4]		ABCD	**360**-½	321	(400-½)
			E	**360**-¾	321	(400-¾)
	14		ABCDE	**340**-1¼	313	(400-1¼)
	24		ABCDE	**320**-1¼	300	(400-1¼)
	32		ABCDE	**340**-1¼	322	(400-1¼)
ASR	14		ABC	**380**-1	353	(400-1)
			DE	**380**-1¼	353	(400-1¼)
	32		ABC	**400**-1	382	(400-1)
			DE	**400**-1¼	382	(400-1¼)
	6[3]		AB	**500**-½	461	(500-½)
			C	**500**-¾	461	(500-¾)
			D	**500**-1	461	(500-1)
			E	**500**-1¼	461	(500-1¼)
	24		AB	**440**-1	420	(500-1)
			CD	**440**-1¼	420	(500-1¼)
			E	**440**-1½	420	(500-1½)
CIR[5]	6-24, 14-32		A	**540**-1	501	(600-1)
			B	**560**-1	521	(600-1)
			C	**560**-1½	521	(600-1½)
			D	**600**-2	561	(600-2)
			E	**640**-2¼	601	(700-2¼)

[1]PAR No-NOTAM preventive maint period Wed 1300-1700Z++. [2]When ALS inop, increase Cat ABCDE vis to ½ mile. [3]When ALS inop, increase Cat AB vis to 1 mile, Cat C vis to 1¼ miles, Cat D vis to 1½ miles, Cat E vis to 1¾ miles. [4]When ALS inop, increase vis Cat ABCD to 1 mile, Cat E vis to 1¼ miles. [5]When circling from PAR W/O GS Rwy 14, 24, and 32, increase vis Cat AB to 1¼ miles.

QUANTICO MCAF (KNYG), (TURNER FIELD) VA (09295 USN) ELEV 11

RADAR[1] - 120.925 351.95 353.65 363.15

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[23]	2	3.0°/35/670	ABCD	**262**-1	252	(300-1)
PAR W/O GS[2]	2		ABCD	**400**-1¼	390	(400-1¼)
ASR[2]	2		AB	**560**-1	550	(600-1)
			C	**560**-1½	550	(600-1½)
			D	**560**-1¾	550	(600-1¾)
CIR PAR or PAR W/O GS[4]	2		A	**500**-1¼	490	(500-1¼)
			B	**540**-1¼	530	(600-1¼)
			C	**540**-1½	530	(600-1½)
			D	**700**-2¼	690	(700-2¼)
CIR[4]	2		AB	**560**-1	550	(600-1)
			C	**560**-1½	550	(600-1½)
			D	**700**-2¼	690	(700-2¼)

[1]GCA avbl daily during published field opr hr. Ctc twr for freq asgn. [2]Procedure NA at night when VGSI inop. [3]PAR military use only in other than VFR. [3]Circling not authorized W of Rwy 2-20.

INSTRUCTION APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude , and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

ABINGDON, VA

VIRGINIA HIGHLANDS

TAKE-OFF MINIMUMS: **Rwys 6, 24**, 300-1.

DEPARTURE PROCEDURE: Climb straight ahead to 5000 when departing NE, or 4000 when departing SW, before proceeding on course.

ANDREWS AFB/NAF (KADW)

CAMP SPRINGS, MD. 09127

TAKE-OFF OBSTACLES: **Rwy 1L,** trees 2972' to 3085' from DER, 765' to 906' right of centerline, 93' AGL/355' MSL. **Rwy 1R,** trees 1512' from DER, 856' right of centerline, 74' AGL/336' MSL; trees 2254' from DER, 645' left of centerline, 93' AGL/ 355' MSL; trees 2629' from DER, 1095' left of centerline, 93' AGL/355' MSL; trees 2882' from DER, 364' left of centerline, 104' AGL/ 362' MSL. **Rwy 19L,** terrain 267' from DER, 580' left of centerline, 261' MSL; trees 2650' to 2874' from DER, 946' to 1113' right of centerline, 91' AGL/334' MSL. **Rwy 19R,** trees 2650' to 2873' from DER, 887' to 1054' left of centerline, 91' AGL/334' MSL; tower 4630' from DER, 1664' right of centerline, 108' AGL/377' MSL.

NAME TAKE-OFF MINIMUMS

ANNAPOLIS, MD

LEE

TAKE-OFF MINIMUMS: **Rwy 30,** 300-1 or std. with a min. climb of 410' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 12,** climb runway heading to 700 before proceeding on course. **Rwy 30,** climb runway heading to 1000 before proceeding right on course. Climb runway heading to 700 before proceeding left on course.

NOTE: **Rwy 12,** cross departure end of runway at or above 35' AGL/66' MSL. **Rwy 30,** trees, 1433' from departure end of runway, 85' left of centerline, 100' AGL/139' MSL. Cross departure end of runway at or above 35' AGL/66' MSL.

BALTIMORE, MD

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL

TAKE-OFF MINIMUMS: **Rwy 4,** 300-1½ or std. w/ min. climb of 210' per NM to 500.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 044° to 800 before proceeding on course. **Rwy 28,** climb heading 285° to 900 before proceeding on course. **Rwy 33L,** climb heading 320° to 2000 before proceeding on course. **Rwy 33R,** climb heading 005° to 1900 before proceeding on course.

NOTE: **Rwy 4,** rod on lighted pole 1921' from departure end of runway, 329' right of centerline, 58' AGL/197' MSL. Light on pole 2177' from departure end of runway, 294' left of centerline, 58' AGL/197' MSL. Light on pole 1755' from departure end of runway, 482' right of centerline, 47' AGL/186' MSL. Tree 2370' from departure end of runway, 481' right of centerline, 60' AGL/199' MSL. Tank 6635' from departure end of runway, 2265' right of centerline, 122' AGL/316' MSL. Tank 7534' from departure end of runway, 2274' left of centerline, 173' AGL/338' MSL. **Rwy 10,** building 52' from departure end of runway, 319' left of centerline, 13' AGL/133' MSL. **Rwy 15L,** multiple trees beginning 648' from departure end of runway, 617' left of centerline, up to 68' AGL/167' MSL. Light on pole 921' from departure end of runway, 618' left of centerline, 62' AGL/161' MSL. **Rwy 15R,** multiple trees beginning 1144' from departure end of runway, 740' right of centerline, up to 53' AGL/172' MSL. **Rwy 22,** terrain beginning 111' from departure end of runway, 29' right of centerline, up to 171' AGL. Terrain 365' from departure end of runway, 137' left of centerline, 158' MSL. **Rwy 28,** tree 1392' from departure end of runway, 736' left of centerline, 77' AGL/176' MSL. **Rwy 33L,** building 4693' from departure end of runway, 874' right of centerline, 127' AGL/266' MSL. Tree 2250' from departure end of runway, 843' right of centerline, 66' AGL/205' MSL. Microwave antenna on building, 4725' from departure end of runway, 907' right of centerline, 126' AGL/265' MSL. Fence 203' from departure end of runway, 517' right of centerline, 9' AGL/140' MSL. **Rwy 33R,** numerous trees beginning 2925' from departure end of runway, 321' left of centerline, up to 70' AGL/289' MSL. Numerous trees beginning 975' from departure end of runway, 116' right of centerline, up to 63' AGL/262' MSL. Light on pole 2384' from departure end of runway, 837' right of centerline, 55' AGL/254' MSL. Building 998' from departure end of runway, 654' left of centerline, 24' AGL/183' MSL. Light on pole 3869' from departure end of runway, 603' left of centerline, 72' AGL/251' MSL. Light on pole 2736' from departure end of runway, 247' right of centerline, 17' AGL/216' MSL. Pole 3781' from departure end of runway, 370' right of centerline, 40' AGL/242' MSL. Signal 2453' from departure end of runway, 904' left of centerline, 45' AGL/204' MSL.

BALTIMORE, MD (CON'T)

MARTIN STATE

TAKE-OFF MINIMUMS: **Rwy 15,** 800-2 or std. with a min. climb of 300' per NM to 1000. **Rwy 33**, 1300-2 or std. with a min. climb of 340' per NM to 1700'.

DEPARTURE PROCEDURE: **Rwy 15**, climb runway heading to 1000 before proceeding on course; or when directed by ATC, climbing right turn heading 190° to 1000 before proceeding on course.

NOTE: **Rwy 15,** trees 1960' from departure end of runway 684' left of centerline, 78' AGL/88' MSL, trees 3395' from departure end of runway, 585' left of centerline, 92' AGL/102' MSL. **Rwy 33,** pole 1553' from departure end of runway, across centerline, 68' AGL/90' MSL. Trees 2342' from departure end of runway, across centerline 86' AGL/108' MSL.

BLACKSBURG, VA

VIRGINIA TECH/MONTGOMERY EXECUTIVE (BCB)

AMDT 4 08073 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** 400-1¼ or std. w/ min. climb of 563' per NM to 2700.

DEPARTURE PROCEDURE: **Rwy 12,** climbing right turn direct PSK VORTAC to 3500 before proceeding on course. **Rwy 30,** climbing left turn direct PSK VORTAC to 4100 before proceeding on course.

NOTE: **Rwy 12,** bushes and trees beginning 275' from departure end of runway, 154' left of centerline, up to 100' AGL/2239' MSL. Trees beginning 5108' from departure end of runway, 1363' left of centerline, up to 100' AGL/2499' MSL. Trees beginning 3165' from departure end of runway, 1324' right of centerline up to 100' AGL/2279' MSL. **Rwy 30,** trees beginning 90' from departure end of runway, 461' left of centerline, up to 46' AGL/2140' MSL. Fence and obstruction light pole beginning 546' from departure end of runway, 161' left of centerline, up to 12' AGL/2139' MSL. Vehicle on road beginning 567' from departure end of runway, 310' left of centerline, 24' AGL/2137' MSL. Trees beginning 2080' from departure end of runway, 788' left of centerline, up to 100' AGL/2201' MSL. Fence, 861' from departure end of runway, 52' right of centerline, up to 12' AGL/2135' MSL. Trees beginning 539' from departure end of runway, 326' right of centerline, up to 40' AGL/2153' MSL. Trees beginning 1328' from departure end of runway, 117' right of centerline, up to 100' AGL/2182' MSL terrain beginning 330' from departure end of runway, 366' right of centerline, up to 2138' MSL pole and antenna beginning 1149' from departure end of runway, 391' right of centerline, up to 40' AGL/2151' MSL.

BLACKSTONE, VA

ALLEN C PERKINSON BLACKSTONE AAF

TAKE-OFF MINIMUMS: **Rwy 1,** 1000-2 or std. with a min. climb of 280' per NM to 1700. **Rwy 4,** 1000-2 or std. with a min. climb of 220' per NM to 1700. **Rwy 19,** NA.

DEPARTURE PROCEDURE: **Rwy 1,** climb heading 010° to 1700 before proceeding on course. **Rwy 4,** climb heading 039°to 1700 before proceeding on course. **Rwy 22,** climb heading 208° to 900 before proceeding on course. **Rwy 22,** climb heading 208° to 900 before proceeding on course.

NOTE: **Rwy 4,** 50' AGL tree, 150' from departure end of runway, 450' right of centerline. **Rwy 22,** 66' AGL tree, 175' from departure end of runway, 450' left of centerline. Do not fly over ammunition dump 1.1 NM SW of Rwy 4.

BRIDGEWATER, VA

BRIDGEWATER AIRPARK (VBW)
AMDT 2 10126 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 300-2¼ w/ min. climb of 280'/NM to 3900, or std. w/ min. climb of 440'/NM to 2600, or 2400-3 for climb in visual conditions. **Rwy 33**, 800-2½ w/ min. climb of 390'/NM to 5000, or std. w/ min. climb of 522'/NM to 2200, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15,** climb heading 152° to 3900, or for climb in visual conditions, cross Bridgewater Air Park at or above 3400 before proceeding on course. **Rwy 33,** climb heading 347° to 5000, or for climb in visual conditions, cross Bridgewater Air Park at or above 3400 before proceeding on course.

NOTE: **Rwy 15,** vehicles on roadway 53' from DER, 14' right of centerline, 15' AGL/1180' MSL. Trees beginning 158' from DER, 259' right of centerline, up to 100' AGL/ 1279' MSL. Trees beginning 499' from DER, 628' left of centerline, up to 100' AGL/1279' MSL. Pole 908' from DER, 183' left of centerline, 35' AGL/1200' MSL. Trees beginning 3205' from DER, 1329' right of centerline, up to 100' AGL/1359' MSL. **Rwy 33,** trees beginning 318' from DER, 252' right of centerline, up to 100' AGL/1249' MSL. Trees beginning 470' from DER, 191' left of centerline, up to 100' AGL/1249' MSL.

BROOKNEAL, VA

BROOKNEAL/CAMPBELL COUNTY

NOTE: **Rwy 6,** multiple trees beginning 569' from departure end of runway, 252' right of centerline, up to 100' AGL/689' MSL. **Rwy 24,** multiple trees beginning 334' from departure end of runway, 286' right of centerline, up to 100' AGL/679' MSL. Multiple trees beginning 1377' from departure end of runway, 850' left of centerline, up to 100' AGL/719' MSL.

CAMBRIDGE, MD

CAMBRIDGE-DORCHESTER

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1.

CAMP PEARY LNDG STRIP (KW94)

WILLIAMSBURG, VA 08213

TAKE-OFF OBSTACLES: **Rwy 5:** trees and multiple transmission lines 120' from DER, 184' left of centerline up to 95' AGL/126' MSL. Trees and multiple transmission lines 162' from DER, 257' right of centerline up to 100' AGL/132' MSL. **Rwy 23:** trees and multiple transmission lines 1891' from DER, 69' left of centerline up to 95' AGL/136' MSL. Multiple trees and transmission lines 537' from DER, 437' right of centerline up to 110' AGL/151' MSL.

CHARLOTTESVILLE, VA

CHARLOTTESVILLE-ALBEMARLE (CHO)
AMDT 9 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3,** std. w/ min. climb of 323' per NM to 1500, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 3,** climb via heading 030° to 1500 then climbing right turn to 4000 direct GVE VORTAC before proceeding on course, or for climb in visual conditions: cross Charlottesville-Albemarle airport at or above 2700 before proceeding on course. **Rwy 21,** climb via heading 210° to 1400, then climbing left turn to 4000 direct GVE VORTAC before proceeding on course.

NOTE: **Rwy 3,** pole 97' from DER, 476' right of centerline, 27' AGL/627' MSL. Trees beginning 836' from DER, 597' right of centerline, up to 100' AGL/1216' MSL. Tower 2.3 NM from DER, 3443' right of centerline, 107' AGL/1167' MSL. Terrain beginning 2.2 NM from DER, 3183' right of centerline, up to 1116' MSL.

CHASE CITY, VA

CHASE CITY MUNI

NOTE: **Rwy 18,** trees beginning 191' from departure end of runway, 116' left of centerline, up to 100' AGL/609' MSL. Multiple trees beginning 327' from departure end of runway, 133' right of centerline, up to 100' AGL/599' MSL. **Rwy 36,** trees beginning 164' from departure end of runway, 154' right of centerline, up to 100' AGL/649' MSL. Trees beginning 470' from departure end of runway, 124' left of centerline, up to 100' AGL/649' MSL.

CHURCHVILLE, MD

HARFORD COUNTY

TAKE-OFF MINIMUMS: **Rwy 28,** 300-1 or std. with a min. climb of 400' per NM to 600.

NOTE: **Rwy 28,** 100' terrain/trees 1150' from departure end of runway.

CLARKSVILLE, VA

LAKE COUNTRY RGNL (W63)
AMDT 1 10098 (FAA)

NOTE: **Rwy 4,** trees beginning 5' from DER, 438' left of centerline, up to 100' AGL/539' MSL. Building 27' from DER, 94' right of centerline, 20' AGL/449' MSL. Vehicles on road beginning 200' from DER, from left to right of centerline, up to 15' AGL/444' MSL. Warehouse 313' from DER, on centerline, 75' AGL/495' MSL. Building 385' from DER, 257' right of centerline, 20' AGL/439' MSL. Trees beginning 444' from DER, 518' right of centerline, up to 100' AGL/509' MSL. **Rwy 22,** trees beginning 3' from DER from 452' left of centerline to 547' right of centerline, up to 100' AGL/422' MSL. Trees beginning 1624' from DER, from 632' left of centerline to 535' right of centerline, up to 100' AGL/485' MSL.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

10154

CLINTON, MD

WASHINGTON EXECUTIVE/HYDE FIELD (W32)
ORIG -A 10126 (FAA)

NOTE: **Rwy 5,** Vehicle on road beginning 20' from DER, on centerline, up to 15' AGL/261' MSL. Antenna on tower beginning 2333' from DER, 556' right of centerline, 137' AGL/361' MSL. **Rwy 23,** Vehicle on road 23' from departure end of runway, 329' left of centerline, 15' AGL/260' MSL.

COLLEGE PARK, MD

COLLEGE PARK (CGS)
AMDT 3B 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15,** 400-2¼ or std. w/ min. climb of 486' per NM to 600. **Rwy 33,** 400-2½ or std. w/ min. climb of 433' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 15,** climb heading 149° to 600 before proceeding on course. **Rwy 33,** climb heading 329° to 600 before proceeding on course.

NOTE: **Rwy 15,** trees beginning 2799' from departure end of runway, 570' left of centerline, up to 100' AGL/259' MSL. Antenna 1.1 NM from departure end of runway, 149' left of centerline, 167' AGL/270' MSL. **Rwy 33,** terrain beginning 1 NM from departure end of runway, 3700' right of centerline to 3700' left of centerline, up to 439' MSL. Building 3811' from departure end of runway, 467' right of centerline, 184' AGL/254' MSL. Tower 1.9 NM from departure end of runway, 1447' left of centerline, 255' AGL/405' MSL.

CRISFIELD, MD

CRISFIELD MUNI

TAKE-OFF MINIMUMS: **Rwys 6, 24,** NA-obstacles

DEPARTURE PROCEDURE: **Rwy 14,** climb via heading 142° to 900 before proceeding on course. **Rwy 32,** climb via heading 322° to 900 before proceeding on course.

CULPEPER, VA

CULPEPER RGNL (CJR)
ORIG 07354 (FAA)

DEPARTURE PROCEDURE: **Rwy 22,** climb heading 218° to 1000 before turning right.

NOTE: **Rwy 4,** tree 79' from departure end of runway, 418' left of centerline 86' AGL/337' MSL. Vehicle on road 207' from departure end of runway, 367' left of centerline, 15' AGL/330' MSL. Tree 3396' from departure end of runway, 514' right of centerline, 91' AGL/410' MSL. **Rwy 22,** tree 128' from departure end of runway, 332' left of centerline, 25' AGL/334' MSL. Multiple trees beginning 272' from departure end of runway, 179' right of centerline up to 22' AGL/341' MSL. Pole 1480' from departure end of runway, 68' left of centerline, 27' AGL/356' MSL.

CUMBERLAND, MD

GREATER CUMBERLAND RGNL

TAKE-OFF MINIMUMS: **Rwy 5,** 1700-2 or std. with a min. climb of 300' per NM to 3400. **Rwy 11,** 1600-2 or std. with a min. climb of 520' per NM to 3400. **Rwy 23,** 1200-2 or std. with a min. climb of 660' per NM to 3400. **Rwy 29,** NA.

DEPARTURE PROCEDURE: **Rwys 5,11,** climb runway heading to 3400 before proceeding on course. **Rwy 23,** climbing left turn to intercept 177° course from CBE NDB to 3400 before proceeding on course.

DANVILLE, VA

DANVILLE RGNL (DAN)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13,** 300-1¼ or std. with a min. climb of 299' per NM to 900.

NOTE: **Rwy 2,** tree 1092' from DER, 8' left of centerline, 67' AGL/586' MSL. Tree 1524' from DER, 659' right of centerline, 67' AGL/606' MSL. **Rwy 13,** trees beginning 569' from DER, 300' right of centerline, up to 100' AGL/759' MSL. Trees beginning 680' from DER, 308' left of centerline, up to 65' AGL/604' MSL. **Rwy 20,** tree 1328' from DER, 633' right of centerline, 30' AGL/569' MSL. **Rwy 31,** hanger 395' from DER, 573' left of centerline, 23' AGL/602' MSL. Pole 1002' from DER, 375' left of centerline, 29' AGL/608' MSL. Antenna 1165' from DER, 416' left of centerline, 62' AGL/641' MSL. Trees beginning 1206' from DER, 287' left of centerline, up to 80' AGL/699' MSL. Trees beginning 2180' from DER, 632' right of centerline, up to 62' AGL/681' MSL.

DAVISON AAF (KDAA)

FORT BELVOIR, VA

. Rwy 32, 300-1*

* Or standard with minimum climb of 380/NM to 500.

TAKE-OFF OBSTACLES: Rwy 32, 63' AGL tree 865' from departure end of rwy, 82' right of centerline.

DOVER AFB (KDOV)

DOVER, DE 09155

TAKE-OFF OBSTACLES: **Rwy 1,** possible aircraft/vehicles at DER hammerhead just left of rwy centerline, up to 65' AGL/91' MSL. **Rwy 19,** possible aircraft/vehicles at DER hammerhead just right of rwy centerline, up to 65' AGL/91' MSL. Rwy 32, multiple C-5s parked on ramp beginning 1535' thru 2780' from DER, 1010' left of centerline, up to 65' AGL/98' MSL. Bldg 3900' from DER, 760' left of centerline, 88' AGL/119' MSL. Possible taxiing aircraft/vehicles on taxilane Alpha beginning 565' thru 2780' from DER, 750' left of centerline, up to 65' AGL/98' MSL. Possible large aircraft 2800' from DER, on taxiway Golf just left of centerline, up to 65' AGL/92' MSL.

DOVER/CHESWOLD, DE

DELAWARE AIRPARK

NOTE: **Rwy 9,** multiple trees beginning 26' from departure end of runway, 50' left of centerline, up to 100' AGL/149' MSL. Pole line 1151' from departure end of runway, 36' right of centerline, 50' AGL/99' MSL. Multiple trees beginning 815' from departure end of runway, 505' right of centerline, up to 100' AGL/154' MSL. **Rwy 27,** multiple trees beginning 231' from departure end of runway, 85' left of centerline, up to 100' AGL/169' MSL. Multiple trees beginning 829' from departure end of runway, 43' right of centerline, up to 100' AGL/164' MSL.

DUBLIN, VA

NEW RIVER VALLEY (PSK)
AMDT 2 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24,** 200-1½ or std. w/ min. climb of 310' per NM to 2400.

DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 150° to intercept PSK VORTAC R-120 outbound to 5200 before proceeding on course. **Rwy 24**, climb heading 238° to 4000 before proceeding on course.

NOTE: **Rwy 6,** tree 321' from DER, 493' left of centerline, 100' AGL/2112' MSL. Terrain 122' from DER, 460' left of centerline, up to 2105' MSL. **Rwy 24,** pole 1223' from DER, 671' right of centerline, 42' AGL/2161' MSL. Pole 669' from DER, 558' right of centerline, 18' AGL/2137' MSL. Pole 4851' from DER, 1170' left of centerline, 32' AGL/2231' MSL. Tower 5078' from DER 1017' left of centerline, 101' AGL/2300' MSL. Trees 226' from DER, 271' left of centerline, up to 103' AGL/2302' MSL. Terrain 68' from DER, 281' right of centerline, up to 2116' MSL.

EASTON, MD

EASTON/NEWNAM FIELD

TAKE-OFF MINIMUMS: **Rwy 22,** 300-2 or std. w/ climb of 241' per NM to 500.

NOTE: **Rwy 4,** vehicles on roads beginning 199' from departure end of runway, 350' right of centerline, up to 15' AGL/102' MSL. Multiple poles beginning 434' from departure end of runway, 88' right of centerline, up to 31' AGL/100' MSL. Multiple trees beginning 1485' from departure end of runway, 46' right of centerline, up to 64' AGL/133' MSL. Tree 1509' from departure end of runway, 38' left of centerline, 47' AGL/116' MSL. **Rwy 15,** fence 2' from departure end of runway, 411' left of centerline, 8' AGL/57' MSL. Multiple poles beginning 721' from departure end of runway, 183' left of centerline, up to 64' AGL/123' MSL. Multiple poles beginning 828' from departure end of runway, 514' right of centerline, up to 26' AGL/85' MSL. Multiple trees beginning 862' from departure end of runway, 275' left of centerline, up to 89' AGL/148' MSL. Multiple trees beginning 1357' from departure end of runway, 238' right of centerline, up to 94' AGL/153' MSL. **Rwy 22,** tree 1251' from departure end of runway, 786' right of centerline, 56' AGL/95' MSL. Multiple trees beginning 1323' from departure end of runway, 759' left of centerline, up to 90' AGL/129' MSL. Tower 1.6 NM from departure end of runway, 2373' left of centerline, 276' AGL/291' MSL. **Rwy 33,** multiple trees 10' from departure end of runway, 19' right of centerline, up to 139' AGL/158' MSL. Vehicle on road 352' from departure end of runway, 405' right of centerline, 15' AGL/59' MSL. Pole 888' from departure end of runway, 409' left of centerline, 19' AGL/58' MSL. Multiple trees beginning 1153' from departure end of runway, 245' left of centerline, up to 99' AGL/118' MSL.

ELKTON, MD

CECIL COUNTY

TAKE-OFF MINIMUMS: NOTE: **Rwy 13,** cross departure end of runway at or above 27' AGL/89' MSL. **Rwy 31,** 300-1½ or std. w/ min. climb of 290' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 31,** climb heading 308° to 900 before turning left.

NOTE: **Rwy 13,** trees 185' from departure end of runway, 110' right of centerline, 50' AGL/113' MSL. Trees 325' from departure end of runway, 125' left of centerline, 75' AGL/138' MSL. **Rwy 31,** trees, 1350' from departure end of runway, on centerline, 115' AGL/221' MSL. Trees beginning 1050' from departure end of runway, 781' left to 781' right of centerline, up to 100' AGL/309' MSL.

EMPORIA, VA

EMPORIA-GREENSVILLE RGNL (EMV)
ORIG 09155 (FAA)

NOTE: **Rwy 15,** vehicle on roadway 21' from DER, 291' left of centerline, up to 15' AGL/124' MSL. Trees beginning 56' from DER, 245' right of centerline, up to 60' AGL/169' MSL. Trees beginning 98' from DER, 231' left of centerline, up to 60' AGL/169' MSL. Trees beginning 1387' from DER, 387' left of centerline, up to 60' AGL/149' MSL. **Rwy 33,** trees beginning 115' from DER, 276' right of centerline, up to 60' AGL/189' MSL. Trees beginning 138' from DER, 321' left of centerline, up to 60' AGL/189' MSL. Vehicle on roadway, 163' from DER, 524' right of centerline, up to 15' AGL/144' MSL. Vehicle on roadway, 222' from DER, 534' left of centerline, up to 17' AGL/146' MSL.

FARMVILLE, VA

FARMVILLE RGNL (FVX)
AMDT 1 10154 (FAA)

NOTE: **Rwy 3,** trees beginning 64' from DER, 156' left of centerline, up to 77' AGL506' MSL. Trees beginning 149' from DER, 398' right of centerline, up to 93' AGL/502' MSL. **Rwy 21,** vehicle on road 97' from DER, 475' left of centerline, up to 15' AGL/422' MSL. Trees beginning 56' from DER, 21' right of centerline, up to 80' AGL/489' MSL. Trees beginning 553' from DER, 53' left of centerline, up to 55' AGL/491' MSL.

FELKER AAF (KFAF),

FORT EUSTIS, VA 08297

Rwy 14, 32 standard.

TAKE-OFF OBSTACLES: **Rwy 14:** Tree 3133' from DER, 167' left of centerline, 103' AGL/112' MSL. **Rwy 32:** Crane 2938' from DER, 941' left of centerline, 114' AGL/124' MSL. Trees beginning 2931' from DER, 186' left of centerline up to 74' AGL/85' MSL.

FORT MEADE (ODENTON), MD

TIPTON

NOTE: **Rwy 10,** cross departure end of runway at or above 17' AGL/167' MSL. **Rwy 10,** trees 1052' right of departure end of runway, 88' AGL/238' MSL.

FRANKLIN, VA

FRANKLIN MUNI-JOHN BEVERLY ROSE (FKN)

AMDT 2 09071 (FAA)

NOTE: **Rwy 9,** trees beginning 1977' from DER, 349' left of centerline, up to 100' AGL/139' MSL. Trees beginning 1287' from DER, 236' right of centerline, up to 100' AGL/134' MSL. Vehicle on road 533' from DER, 604' right of centerline, 15' AGL/59' MSL. **Rwy 27,** trees beginning 100' from DER, 444' left of centerline, up to 100' AGL/134' MSL. Trees beginning 520' from DER, 520' right of centerline, up to 100' AGL/134' MSL. Vehicle on road 308' from DER, left to right of centerline, 15' AGL/44' MSL.

FREDERICK, MD

FREDERICK MUNI

TAKE-OFF MINIMUMS: **Rwy 12**, 500-3 or std. with a min. climb of 270' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway heading to 2000 before proceeding on course. **Rwy 30,** climbing right turn to intercept FDK VOR R-010 to 2400 before proceeding on course.

FREDERICKSBURG, VA

SHANNON

TAKE-OFF MINIMUMS: **Rwy 24,** 800-3 or std. with a min. climb of 290' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 24,** climb to 800 via runway heading before proceeding on course.

NOTE: 744' tower 2.1 NM from departure end of Rwy 24.

FRIENDLY, MD

POTOMAC AIRFIELD

TAKE-OFF MINIMUMS: **Rwys 6,24,** 300-1.

NOTE: **Rwy 6,** 50' AGL trees 300' left of departure end of runway. 75' AGL trees 320' right of departure end of runway. **Rwy 24,** 80' AGL trees 200' right of departure end of runway. 75' AGL trees 200' left of departure end of runway. 30' AGL hanger 200' from departure end of runway, 190' right of centerline.

FRONT ROYAL, VA

FRONTROYAL-WARREN COUNTY

TAKE-OFF MINIMUMS: **Rwy 9,** std. w/ min. climb of 409' per NM to 1100, or 2300-3 for climb in visual conditions. **Rwy 27,** NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 9,** climbing left turn via MRB R-216 to MRB VORTAC before proceeding on course, do not exceed 180 knots until MRB VORTAC; or for climb in visual conditions: cross Front Royal-Warren County Airport at or above 2900 MSL before proceeding on course.

NOTE: **Rwy 9,** multiple trees beginning 148' from departure end of runway, 99' right of centerline, up to 100' AGL/939' MSL. Multiple trees beginning 182' from departure end of runway, 189' left of centerline, up to 100' AGL/854' MSL.

GAITHERSBURG, MD

MONTGOMERY COUNTY AIRPARK

TAKE-OFF MINIMUMS: NOTE: **Rwy 14,** 62' AGL trees 197' right of centerline. **Rwy 32,** 63' AGL trees 335' left of centerline.

GALAX-HILLSVILLE, VA

TWIN COUNTY

TAKE-OFF MINIMUMS: **Rwy 19,** 300-1 or std. with a min. climb of 240' per NM until passing 3000. **Rwy 1,** 300-1 or std. with a min. climb of 310' per NM until passing 3000.

GEORGETOWN, DE

SUSSEX COUNTY

TAKE-OFF MINIMUMS: **Rwys 4, 13, 22, 31,** 300-1.

GRUNDY, VA

GRUNDY MUNI

TAKE-OFF MINIMUMS: **Rwy 22,** 300-2 or std. with a min. climb of 240' per NM to 2700.

HAGERSTOWN, MD

HAGERSTOWN RGNL -RICHARD A. HENSON FIELD

TAKE-OFF MINIMUMS: **Rwy 2**, 300-1.

DEPARTURE PROCEDURE: **Rwy 9**, climbing left turn to 2500 via 040° heading to intercept the HGR R-084 before departing as cleared. **Rwys 2, 20**, climb to 2000 before turning eastbound.

HOT SPRINGS, VA

INGALLS FIELD

TAKE-OFF MINIMUMS: **Rwy 7,** 500-1 or std. with a min. climb of 320' per NM to 4400. **Rwy 25**, 600-1 or std. with a min. climb of 390' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 7,** climb runway heading to 4400 before proceeding on course. **Rwy 25,** climb runway heading to 5000 before proceeding on course.

INDIAN HEAD, MD

MARYLAND

TAKE-OFF MINIMUMS: **Rwy 36,** 300-1¼ or std. w/ min. climb of 360' per NM to 600.

NOTE: **Rwy 18,** trees abeam departure end of runway, 125' left of centerline, up to 100' AGL/256' MSL. Trees 269' from departure end of runway, on centerline, 100' AGL/256' MSL. Trees abeam departure end of runway, 125' right of centerline, up to 100' AGL/256' MSL. Tower 6170' from departure end of runway, 620' right of centerline, 190' AGL/384' MSL. **Rwy 36,** trees 258' from departure end of runway, 309' left of centerline, up to 100' AGL/271' MSL. Tree 567' from departure end of runway, 125' left of centerline, 60' AGL/230' MSL. Rising terrain beginning 73' from departure end of runway, 64' right of centerline, 180' MSL.

JONESVILLE, VA

LEE COUNTY

TAKE-OFF MINIMUMS: **Rwy 7,** std. w/ min. climb of 467' per NM to 3800, or 1900-3 for climb in visual conditions. **Rwy 25,** std. w/ min. climb of 442' per NM to 3500, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 7, 25,** for climb in visual conditions cross Lee County Airport at or above 3200 before proceeding on course.

NOTE: **Rwy 7,** terrain 116' from departure end of runway, 72' right of centerline, 1439' MSL. Terrain 691' from departure end of runway, 53' right of centerline, 1459' MSL. Terrain 267' from departure end of runway, 190' left of centerline, 1439' MSL. Terrain 479' from departure end of runway, 68' left of centerline, 1459' MSL.

LANGLEY AFB (KLFI)

HAMPTON, VA

..... Orig 07354

..... **Rwy 8**, 500-3*

* Or standard with minimum climb of 240 ft/NM to 700.

NOTE: Rwy 26, cross DER at or above 10' AGL/18' MSL.

TAKE-OFF OBSTACLES: **Rwy 8**, Boat 2261' from DER, 779' left of centerline, 60' AGL/80' MSL. Boat 2500' from DER, 59' left of centerline, 60' AGL/70' MSL. Vehicle on road 1051' from DER, 702' right of centerline, 15' AGL/43' MSL. Boat 2841' from DER, 641' right of centerline, 60' AGL/80' MSL. Multiple towers 2.0 NM from DER, 1.7 NM right of centerline, 503' AGL/511' MSL. Rwy 26, Tree 4050' from DER, 685' left of centerline, 100' AGL/120' MSL. Tree 4840' from DER, 687' left of centerline,100' AGL/136' MSL. Tree 4044' from DER, 31' left of centerline, 101' AGL/113' MSL. Tree 4153' from DER, 342' right of centerline, 101' AGL/114' MSL. Tree 4037' from DER, 623' right of centerline, 101' AGL/110' MSL. Tree 4377' from DER, 435' right of centerline, 100' AGL/121' MSL. Tree 3805' from DER, 1184' right of centerline, 100' AGL/133' MSL.

LAUREL, DE

LAUREL

DEPARTURE PROCEDURE: **Rwys 15, 33,** climb runway heading to 1200 before proceeding on course.

LAWRENCEVILLE, VA

LAWRENCEVILLE/BRUNSWICK MUNI

TAKE-OFF MINIMUMS: **Rwys 6,24,** NA.

NOTE: **Rwy 18,** trees 1654' from departure end of runway, 772' left of centerline, 88' AGL/407' MSL. Trees 200' from departure end of runway, on centerline, 22' AGL/321' MSL. **Rwy 36,** trees 1487' from departure end of runway, 20' left of centerline, 88' AGL/420' MSL. Trees 113' from departure end of runway, 372' right of centerline, 88' AGL/420' MSL.

LEESBURG, VA

LEESBURG EXECUTIVE (JYO)

AMDT 1 09183 (FAA)

DEPARTURE PROCEDURE: **Rwy 35,** climb heading 351° to 900 before proceeding on course.

NOTE: **Rwy 17,** building 167' from DER, 360' left of centerline, 22' AGL/401' MSL. Pole 958' from DER, 373' left of centerline, 32' AGL/421' MSL. Trees beginning 138' from DER, left and right of centerline, up to 100' AGL/464' MSL. **Rwy 35,** terrain 96' from DER, 453' left of centerline, 381' MSL. Tree 1078' from DER, 525' left of centerline, up to 100' AGL/413' MSL. Trees 682' from DER, 333' right of centerline, up to 100' AGL/459' MSL. Pole 638' from DER, 642' right of centerline, 49' AGL/428' MSL.

LEONARDTOWN, MD

ST. MARY'S COUNTY RGNL

NOTES: **Rwy 11,** multiple trees beginning 88' from departure end of runway, 339' left of centerline, up to 80' AGL/205' MSL. Multiple trees beginning 61' from departure end of runway, 193' right of centerline up to 80' AGL/205' MSL. **Rwy 29,** multiple trees beginning 996' from departure end of runway, 227' left of centerline up to 79' AGL/221' MSL. Multiple trees beginning 596' from departure end of runway, 277' right of centerline up to 71' AGL/213' MSL. Multiple towers on buildings beginning 53' from departure end of runway, 400' right of centerline up to 26' AGL/168' MSL. Equipment on building 223' from departure end of runway, 449' right of centerline, 15' AGL/169' MSL. Tower 402' from departure end of runway, 399' right of centerline, 33' AGL/175' MSL. Fence 496' from departure end of runway, 241' right of centerline, 22' AGL/164' MSL.

LOUISA, VA

LOUISA COUNTY/FREEMAN FIELD (LKU)

ORIG 08157 (FAA)

NOTE: **Rwy 9,** trees beginning abeam departure end of runway, 369' right of centerline, up to 100' AGL/589' MSL. Trees beginning 226' from departure end of runway, 541' left of centerline, up to 100' AGL/559' MSL. Trees beginning 1200' from departure end of runway, left and right of centerline, up to 100'AGL/539'MSL. **Rwy 27,** trees beginning abeam departure end of runway, 350' right of centerline, up to 100' AGL/569' MSL. Trees beginning 211' from departure end of runway, 133' right of centerline, up to 100' AGL/569' MSL. Trees beginning 69' from departure end of runway, 513' left of centerline, up to 100' AGL/569' MSL. Trees beginning 586' from departure end of runway, left and right of centerline, up to 100' AGL/549' MSL.

LURAY, VA

LURAY CAVERNS

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 1000-3

DEPARTURE PROCEDURE: Climb visually so as to cross airport at or above 2000, then continue climb to 5000 via LUA 215° bearing before proceeding on course.

LYNCHBURG, VA

FALWELL

TAKE-OFF MINIMUMS: **Rwy 10,** 1100-2½ for climb in visual conditions. **Rwy 28,** NA-obstacle.

DEPARTURE PROCEDURE: **Rwy 10,** for climb in visual conditions: cross Falwell Airport at or above 1900 before proceeding on course.

NOTE: **Rwy 10,** multiple trees 9' from departure end of runway, 87' right of centerline, up to 100' AGL/899' MSL. Multiple power lines 2896' from departure end of runway, 1192' right of centerline, up to 149' AGL/968' MSL.

LYNCHBURG RGNL/PRESTON GLENN FIELD (LYH)

AMDT 8 08073 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17,** 300-2¼ or std. w/ min. climb of 232' per NM to 1500. **Rwy 35,** std. w/ min. climb of 350' per NM to 3000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4,** climb heading 036° to 2200 before proceeding on course. **Rwy 17,** climb heading 169° to 1800 before turning right. **Rwy 22,** climb heading 216° to 1800 before turning right. **Rwy 35,** climb heading 349° to 3000 before turning left, or for climb in visual conditions: cross Lynchburg Rgnl/Preston Glenn Field at or above 2500' MSL before proceeding on course.

NOTE: **Rwy 4,** trees beginning 2029' from departure end of runway, 62' right of centerline up to 81' AGL/999' MSL. Trees beginning 1422' from departure end of runway, 3' left of centerline up to 76' AGL/995' MSL. Poles beginning 427' from departure end of runway, 483' right of centerline up to 44' AGL/1044' MSL. Obstruction lights on fence beginning 2' from departure end of runway, 500' right of centerline up to 30' AGL/ 948' MSL. Antenna on building 395' from departure end of runway, 277' right of centerline 15' AGL/954' MSL. Light 606' from departure end of runway, 599' right of centerline, 18' AGL/982' MSL. Building 400' from departure end of runway, 345' right of centerline, 12' AGL/951' MSL. **Rwy 17,** trees beginning 284' from departure end of runway, 77' left of centerline up to 277' AGL/1195' MSL. Trees beginning 265' from departure end of runway, 178' right of centerline up to 57' AGL/969' MSL. Obstruction light on pole 9326' from departure end of runway 333' left of centerline, 270' AGL/1188 MSL. **Rwy 22,** trees beginning 274' from departure end of runway, 245' right of centerline up to 41' AGL/979' MSL. Trees beginning 2616' from departure end of runway, 206' left of centerline up to 41' AGL/ 979' MSL. Poles beginning 2872' from departure end of runway, 603' right of centerline up to 44' AGL/982' MSL. **Rwy 35,** trees beginning 2955' from departure end of runway, 140' right of centerline up to 96' AGL/ 1014' MSL. Trees beginning 722' from departure end of runway, 71' left of centerline up to 119' AGL/1037' MSL. Pole 36' from departure end of runway 98' left of centerline, 25' AGL/ 943' MSL.

MANASSAS, VA

MANASSAS RGNL/HARRY P. DAVIS FIELD

NOTE: **Rwy 16R,** terrain 64' from departure end of runway, 136' right of centerline, 179' MSL. Numerous trees beginning 242' from departure end of runway, 53' right of centerline up to 100' AGL/279' MSL. Vehicle on road 886' from departure end of runway, 463' right of centerline, 15' AGL/214' MSL. Terrain 33' from departure end of runway, 427' left of centerline, 179' MSL. Numerous trees beginning 688' from departure end of runway, 40' left of centerline, up to 100' AGL/279' MSL. **Rwy 16L,** terrain 56' from departure end of runway, 177' left of centerline, 179' MSL. Numerous trees beginning 1911' from departure end of runway, 158' left of centerline, up to 83' AGL/292' MSL. Terrain 87' from departure end of runway, 386' right of centerline, 179' MSL. Numerous trees beginning 2559' from departure end of runway, 29' right of centerline, up to 100' AGL/273' MSL. **Rwy 34R,** sign 70' from departure end of runway, 91' right of centerline, 6' AGL/ 196' MSL. Terrain beginning 23' from departure end of runway, 222' right of centerline, up to 199' MSL. Vehicle on road 198' from departure end of runway, 9' right of centerline, 15' AGL/214' MSL. Numerous trees beginning 1860' from departure end of runway, 828' right of centerline, 70' AGL/280' MSL. Numerous trees beginning 2875' from departure end of runway, 484' left of centerline, up to 27' AGL/266' MSL. **Rwy 34L,** terrain 107' from departure end of runway, 409' right of centerline, 189' MSL. Numerous trees beginning 2802' from departure end of runway, 251' right of centerline, up to 27' AGL/266' MSL. Terrain 76' from departure end of runway, 154' left of centerline, 189' MSL. Vehicle on road 366' from departure end of runway, 19' left of centerline, 15' AGL/204' MSL. Numerous trees beginning 1603' from departure end of runway, 249' left of centerline, up to 43' AGL/252' MSL. Tower 3398' from departure end of runway, 1102' left of centerline, 68' AGL/274' MSL.

MARION/WYTHEVILLE, VA

MOUNTAIN EMPIRE

TAKE-OFF MINIMUMS: **Rwy 8,** 300-1. **Rwy 26,** 800-1.

DEPARTURE PROCEDURE: **Rwy 8**, climb direct to MK NDB then climb to 5300 via 073° bearing before proceeding on course. **Rwy 26**, climb to 5400 via 253° bearing from MK NDB before proceeding on course.

MARTINSVILLE, VA

BLUE RIDGE (MTV)
AMDT 3 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12,** std. with a min. climb of 249' per NM to 2100 or 1900-3 for climb in visual conditions. **Rwy 30**, std. with a min. climb of 321' per NM to 4300 or 1900-3 for climb in visual condtions.

DEPARTURE PROCEDURE: **Rwy 12,** climb heading 125° to 2200 before proceeding on course. For climb in visual conditions: cross Blue Ridge airport at or above 2700 MSL before proceeding on course. **Rwy 30,** for climb in visual conditions: cross Blue Ridge airport at or above 2700 MSL before proceeding on course.

NOTE: **Rwy 12,** trees beginning 316' from DER, 320' left of centerline, up to 47' AGL/956' MSL. Trees beginning 38' from DER, 380' right of centerline, 82' AGL/941' MSL. **Rwy 30,** trees beginning 82' from DER, 9' right of centerline, up to 100' AGL/1058' MSL. Vehicle on road 638' from DER, 418' right of centerline, 15' AGL/974' MSL. Obstruction light on DME 1031' from DER, 304' right of centerline, 18' AGL/977' MSL. Fence 947' from DER, 400' right of centerline, 12' AGL/971' MSL. Trees beginning 102' from DER, 94' left of centerline, up to 77' AGL/1047' MSL.

MELFA, VA

ACCOMACK COUNTY

NOTE: **Rwy 3,** multiple trees beginning 41' from departure end of runway, 221' right of centerline, up to 84' AGL/128' MSL. Truck on road 204' from departure end of runway, 231' left of centerline, 15' AGL/61' MSL. Multiple trees beginning 249' from departure end of runway, 14' left of centerline, up to 106' AGL/155' MSL. Truck on road 494' from departure end of runway, 228' left of centerline, 15' AGL/62' MSL. Rod on obstruction light tower 862' from departure end of runway, 402' left of centerline, 55' AGL/99' MSL. **Rwy 21,** multiple trees beginning 27' from departure end of runway, 395' right of centerline, up to 91' AGL/135' MSL. Multiple trees 504' from departure end of runway, 403' left of centerline, up to 110' AGL/144' MSL.

MIDDLETOWN, DE

SUMMIT

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1, or std. with a min. climb of 280' per NM to 400.

MITCHELLVILLE, MD

FREEWAY

TAKE-OFF MINIMUMS: **Rwy 18,** 300-1 or std. with a min. climb of 295' per NM to 500. **Rwy 36,** 300-1 or std. with a min. climb of 500' per NM to 600.

NOTE: **Rwy 18,** trees 328' from departure end of runway, 20' AGL/178' MSL. Trees 838' from departure end of runway, 337' left of centerline, 50' AGL/220' MSL. **Rwy 36,** cross departure end of runway at or above 35' AGL/203' MSL. Road/vehicle, 231' from departure end of runway, 17' AGL/185' MSL. Trees 332' from departure end of runway, 20' AGL/188' MSL. Power poles and lines crossing centerline, 2280' from departure end of runway, 186' AGL/345' MSL.

MONETA, VA

SMITH MOUNTAIN LAKE

TAKE-OFF MINIMUMS: **Rwys 5, 23**, 300-1.

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb straight ahead to 1600 before proceeding on course.

NEWPORT NEWS, VA

NEWPORT NEWS/WILLIAMSBURG INTL

TAKE-OFF MINIMUMS: **Rwy 20**, 300-1¼ or standard with a minimum climb of 255' per NM to 300.

NOTE: **Rwy 2,** bush 295' from departure end of runway, 291' right of centerline 22'AGL/62' MSL. Tree 937' from departure end of runway, 603' left of centerline 81' AGL/131' MSL. Pole 1221' from departure end of runway, 487' right of centerline 31' AGL/81' MSL. Tree 1275' from departure end of runway, 517' left of centerline 79' AGL/132' MSL. Multiple trees beginning 1554' from departure end of runway, 298' left of centerline up to 88' AGL/141' MSL. Tree 1686' from departure end of runway, 428' right of centerline 61' AGL/114' MSL. Tree 1849' from departure end of runway, 598' right of centerline 72' AGL/125' MSL. T-L tower 3351' from departure end of runway, 1008' left of centerline 109' AGL/161 MSL. **Rwy 7,** tree 371' from departure end of runway, 588' left of centerline 36' AGL/73' MSL. T-L tower 4120' from departure end of runway, 1324' right of centerline 93' AGL/116'MSL. T-L tower 5625' from departure end of runway, 1345' left of centerline 133' AGL/191' MSL. **Rwy 20,** bush 96' from departure end of runway, 293' left of centerline 22' AGL/52' MSL. Stack 5977' from departure end of runway, 598' left of centerline 186' AGL/227' MSL. **Rwy 25,** tree 694' from departure end of runway, 549' right of centerline 42' AGL/65' MSL. Tree 1020' from departure end of runway, 703' right of centerline 23' AGL/97' MSL. Tree 1622' from departure end of runway, 529' left of centerline 59' AGL/79' MSL. Tree 2654' from departure end of runway, 335' right of centerline 86' AGL/106' MSL. Tree 3435 from departure end of runway, 1125' right of centerline 116' AGL/139' MSL.

NORFOLK, VA

CHESAPEAKE RGNL

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway heading to 500 before proceeding on course.

NOTE: **Rwy 5,** cross departure end of runway at or above 27' AGL/48' MSL. Trees 2200' from departure end of runway, 545' left of centerline, 81' AGL/102' MSL. **Rwy 23,** cross departure end of runway at or above 25' AGL/43'MSL. Trees 1600' from departure end of runway, 710' right of centerline, 62' AGL/82' MSL.

NORFOLK, VA (CON'T)

HAMPTON ROADS EXECUTIVE

TAKE-OFF MINIMUMS: **Rwy 10,** std. w/ min. climb of 217' per NM to 700, or alternatively w/ std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2100' prior to departure end of runway or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2,** climb heading 019° to 1600 before turning west. **Rwy 10,** climb heading 102° to 900 before proceeding on course, or for climb in visual conditions, cross Hampton Roads Executive Airport at or above 1600 before proceeding on course. **Rwy 20,** climb heading 199° to 1000 before turning North. **Rwy 28,** climb heading 282° to 1500 before turning North.

NOTE: **Rwy 2,** multiple trees beginning 693' from departure end of runway, 286' left of centerline, up to 100' AGL/124' MSL. Multiple trees beginning 917' from departure end of runway, 422' right of centerline, up to 100' AGL/124' MSL. **Rwy 10,** trees 688' from departure end of runway, 374' left of centerline, 61' AGL/85' MSL. Vehicle on road and multiple trees beginning 750' from departure end of runway, 359' right of centerline, up to 100' AGL/124' MSL. Tower 1.1 NM from departure end of runway, 1424' left of centerline, 175' AGL/192' MSL. **Rwy 20,** vehicle on road and multiple trees beginning 199' from departure end of runway, 250' left of centerline, up to 100' AGL/124' MSL. Vehicle on road and multiple trees beginning 595' from departure end of runway, 8' right of centerline, up to 100' AGL/124' MSL. **Rwy 28,** multiple trees beginning 2711' from departure end of runway, 366' left of centerline, up to 100' AGL/124' MSL. Vehicle on road 3' from departure end of runway, 112' right of centerline, 17' AGL/34' MSL. Multiple trees beginning 2595' from departure end of runway, 362' right of centerline, up to 100' AGL/124' MSL.

NORFOLK, VA (CON'T)

NORFOLK INTL

NOTES: **Rwy 5,** mobile crane 4091' from departure end of runway, 1249' right of centerline, 150' AGL/163' MSL. Multiple ship masts beginning 2761' from departure end of runway, 22' right of centerline, up to 100' AGL/100' MSL. Multiple ship masts beginning 2564' from departure end of runway, 133' left of centerline, up to 100' AGL/100' MSL. Obstruction light on pole 3978' from departure end of runway, 931' left of centerline, 138' AGL/146' MSL. Multiple towers beginning 4045' from departure end of runway, 982' left of centerline, up to 138' AGL/146' MSL. Obstruction light on pole 2898' from departure end of runway, 811' right of centerline, 84' AGL/98' MSL. Antenna 4115' from departure end of runway, 1585' right of centerline, 117' AGL/131' MSL. Tower 2974' from departure end of runway, 772' right of centerline, 90' AGL/98' MSL, obstruction light on pole 2696' from departure end of runway, 1063' left of centerline, 84' AGL/91' MSL. Bush 29' from departure end of runway, 307' right of centerline, 6' AGL/20' MSL. Tree 1459' from departure end of runway, 159' left of centerline, 41' AGL/55' MSL. Tower 2938' from departure end of runway, 1254' left of centerline, 89' AGL/94' MSL. Tree 1399' from departure end of runway, 201' right of centerline, 38' AGL/52' MSL. Sign 82' from departure end of runway, 301' left of centerline, 2' AGL/19' MSL. Terrain 23' from departure end of runway, 227' left of centerline, 0' AGL/17'MSL. **Rwy 14,** tree 2541' from departure end of runway, 432' right of centerline, 101' AGL/121' MSL. Multiple trees beginning 443' from departure end of runway, 398' left of centerline, up to 75' AGL/95' MSL. Pole 1410' from departure end of runway, 254' right of centerline, 45' AGL/62' MSL. **Rwy 23,** rod on obstruction light pole 1012' from departure end of runway, 650' right of centerline, 56' AGL/73' MSL. Multiple trees beginning 619' from departure end of runway, 584' left of centerline, up to 81' AGL/98' MSL. Obstruction light on pole 1433' from departure end of runway, 738' left of centerline, 54' AGL/71' MSL. Multiple trees beginning 323' from departure end of runway, 504' right of centerline, up to 26' AGL/43' MSL. Pole 2165' from departure end of runway, 840' right of centerline, 57' AGL/74' MSL. **Rwy 32,** multiple trees beginning 17' from departure end of runway, 460' right of centerline, up to 81' AGL/98' MSL. Multiple trees and poles beginning 60' from departure end of runway, 333' left of centerline, up to 87' AGL/92' MSL. Road 207' from departure end of runway, 231' right of centerline, 12' AGL/29' MSL. Multiple obstruction lights on towers 201' from departure end of runway, 135' left of centerline, up to 12' AGL/27' MSL.

NORFOLK NS (CHAMBERS FIELD)(KNGU)

NORFOLK, VA 08269

Rwy 28: 300-1½*

* Or standard with minimum climb of 235'/NM (DoD) or 245'/NM (civil) to 300.

TAKE-OFF OBSTACLES: **Rwy 10:** Trees with a maximum height of 100' within 1500' of departure end of rwy. Cross departure end of rwy at or above 35' AGL/48' MSL.

OAKLAND, MD

GARRETT COUNTY (2G4)

ORIG 08101 (FAA)

NOTE: **Rwy 9,** Multiple trees beginning 75' from departure end of runway, 94' left of centerline, up to 100' AGL/2939' MSL. Multiple trees beginning 76' from departure end of runway, 47' right of centerline, up to 100' AGL/2939' MSL. **Rwy 27,** Multiple trees beginning 15' from departure end of runway, 334' left of centerline, up to 100' AGL/3019' MSL. Multiple trees beginning 19' from departure end of runway, 107' right of centerline, up to 100' AGL/3019' MSL.

OCEAN CITY, MD

OCEAN CITY MUNI

TAKE-OFF MINIMUMS: **Rwys 2, 32**, 400-2 or std. with a min. climb of 260' per NM to 500.

OCEANA NAS (APOLLO SOUCEK FIELD) (KNTU)

VIRGINIA BEACH, VA. 09351

TAKE-OFF OBSTACLES: **Rwy 5L,** Trees 115' MSL, 3706' from DER, 97' right of centerline. **Rwy 5R,** Trees 115' MSL, 3706' from DER, 603' left of centerline. **Rwy 14L,** Trees 105' MSL, 2792' from DER, 7' left of centerline. **Rwy 14R,** Trees 105' MSL, 2792' from DER, 708' left of centerline.

ORANGE, VA

ORANGE COUNTY

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1.

DEPARTURE PROCEDURE: **Rwys 8, 26**, climb runway heading to 1500 before turning.

PATUXENT RIVER NAS (TRAPNELL FIELD),(KNHK)

PATUXENT RIVER, MD 09267

Rwy 6, Obstacle identification surface begins 15' above DER.

Rwy 14, Obstacle identification surface begins 35' above DER.

Rwy 20, Obstacle identification surface begins 20' above DER.

Rwy 24, Obstacle identification surface begins 15' above DER.

TAKE-OFF OBSTACLES: **Rwy 6,** Pole 63' AGL/83' MSL, 1967' from DER, 981' left of centerline. **Rwy 14,** Trees 42' AGL/57' MSL, 190' from DER, 223' left of centerline. Two lane road crossing rwy thld max ht 17' AGL/33' MSL, 193' from DER. Pole 34' AGL/50' MSL, 315' from DER, 198' left of centerline. Trees 43' AGL/59' MSL, 520' from DER, 637' right of centerline. **Rwy 20,** Trees 44' AGL/81' MSL, 1555' from DER, 845' right of centerline. Trees 56' AGL/93' MSL, 2057' from DER, 778' right of centerline. Trees 67' AGL/104' MSL, 2077' from DER, 818' right of centerline. Trees 93' AGL/130' MSL, 3029' from DER, 32' left of centerline. **Rwy 24,** 43' AGL/81' MSL, 1682' from DER, 582' left of centerline. Trees 57' AGL/93' MSL, 2015' from DER, 965' left of centerline. Trees 66' AGL/104' MSL, 2056' from DER, 948' left of centerline.

PETERSBURG, VA

DINWIDDIE COUNTY (PTB)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwys 32, 14,** NA-obstacles.

NOTE: **Rwy 5,** numerous trees beginning 911' from departure end of runway, 551' left of centerline, up to 65' AGL/254' MSL. Fence 161' from departure end of runway, 472' right of centerline, 7' AGL/196' MSL. Tree 1031' from departure end of runway, 690' right of centerline, 57' AGL/256' MSL. **Rwy 23,** numerous trees beginning 2615' from departure end of runway, 69' right of centerline, up to 80' AGL/289' MSL. Fence 10' from departure end of runway, 476' left of centerline, 10' AGL/199' MSL. Numerous trees beginning 819' from departure end of runway, 528' left of centerline, up to 72' AGL/281' MSL.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING GROUND, MD . . 07270

TAKE-OFF OBSTACLES: **Rwy 4**, vehicle on road 1059' from DER, on centerline, 10' AGL/86' MSL. Tree 1126' from DER, 118' left of centerline, 29' AGL/88' MSL. **Rwy 22**, vehicle on road 234' from DER, 27' right of centerline, 10' AGL/49' MSL. Multiple trees beginning 398' from DER, 311' right of centerline, up to 50' AGL/89' MSL. Tree 1094' from DER, 49' left of centerline, 43' AGL/62' MSL.

QUANTICO MCAF (TURNER FIELD) (KNYG)

QUANTICO, VA 09295

Diverse departures not authorized.

Rwy 2, 400-2½*

Rwy 20, 300-1¼**

* Or standard with minimum civil climb of 470 ft/NM to 600, minimum military climb of 410 ft/NM to 500.

** Or standard with minimum civil climb of 360 ft/NM to 400, minimum military climb of 320 ft/NM to 400.

DEPARTURE PROCEDURE: **Rwy 2,** Climbing right turn to 2000 direct BRV VORTAC or to assigned heading for radar vectors. **Rwy 20,** Climb to 2000 direct BRV VORTAC or as assigned for radar vectors.

TAKE-OFF OBSTACLES: **Rwy 2,** Multiple trees on rising terrain 100' AGL/296' MSL, 4075' from DER, 803' left of centerline. Multiple trees on rising terrain 100' AGL/197' MSL, 5763' from DER, 106' left of centerline. Multiple trees 100' AGL/240' MSL, 5763' from DER, 509' right of centerline. Smokestack 100' MSL, 2310' from DER, 401' left of centerline. Multiple smokestacks up to 397' MSL, 2 NM from DER, 4175' right of centerline. **Rwy 20,** Terrain 27' MSL, starting 347' from DER, 192' right of centerline. Trees 34' AGL/213' MSL, 5749' from DER, 1878' right of centerline.

QUINTON, VA
NEW KENT COUNTY (W96)
AMDT 1 10154 (FAA)
NOTE: **Rwy 10,** trees beginning at DER, left and right of centerline, up to 100' AGL/239' MSL. **Rwy 28,** trees beginning at DER, left and right of centerline, up to 100' AGL/239' MSL.

RICHLANDS, VA
TAZEWELL COUNTY
TAKE-OFF MINIMUMS: **Rwy 7,** 300-1 or std. with a min. climb of 430' per NM to 3000. **Rwy 25,** 300-1 or std. with a min. climb of 280' per NM to 2900.
DEPARTURE PROCEDURE: **Rwy 7,** climb runway heading to 4700 before proceeding southbound. **Rwy 25,** climb runway heading to 4100 before proceeding southbound.

RICHMOND, VA
CHESTERFIELD COUNTY
TAKE-OFF MINIMUMS: **Rwy 15,** 800-1 or std. with a min. climb of 280' per NM to 1200. **Rwy 33**, 1200-1, or std. with a min. climb of 220' per NM to 1700.
DEPARTURE PROCEDURE: **Rwy 15,** climb runway heading to 1200' before proceeding on course. **Rwy 33**, climb runway heading to 1700' before proceeding on course.
NOTE: **Rwy 15,** 18' AGL pole 1315' from departure end of runway, 304' left of centerline. **Rwy 33,** 84' AGL tree 2399' from departure end of runway, 84' left of centerline.

RICHMOND, VA (CON'T)
RICHMOND INTL (RIC)
AMDT 1 10098 (FAA)
TAKE-OFF MINIMUMS: **Rwy 2,** 200-1¼ or std. w/ min. climb of 230' per NM to 400, or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1600' prior to DER.
NOTE: **Rwy 2,** aircraft on surface beginning 3' from DER, 202' right of centerline, up to 65' AGL/232' MSL. Trees and bushes beginning 104' from DER, 223' left of centerline, up to 100' AGL/251' MSL. Trees beginning 2918' from DER, 367' right of centerline, up to 100' AGL/260' MSL. **Rwy 7,** trees beginning 1208' from DER, 798' right of centerline, up to 100' AGL/259' MSL. Trees beginning 1347' from DER, 283' left of centerline, up to 100' AGL/259' MSL. **Rwy 20,** hangar 817' from DER, 665' right of centerline, 43' AGL/212' MSL. Trees beginning 2307' from DER, 1065' left of centerline, up to 100' AGL/235' MSL. Trees beginning 2645' from DER 759' right of centerline, up to 100' AGL/255' MSL. Pole 3226' from DER, 424' right of centerline, 79' AGL/248' MSL. **Rwy 25,** vehicles on road beginning 390' from DER, on centerline, up to 15' AGL/184' MSL. Train on railroad beginning 545' from DER, on centerline, up to 23' AGL/192' MSL. Tower 799' from DER, 562' left of centerline, 16' AGL/185' MSL. Trees beginning 2414' from DER, 285' right of centerline, up to 100' AGL/279' MSL. Multiple poles beginning 3056' from DER, 565' left of centerline, up to 83' AGL/252' MSL. Trees beginning 3176' from DER, 357' left of centerline, up to 100' AGL/269' MSL. **Rwy 34,** aircraft on surface beginning 12' from DER, 192' left of centerline, up to 65' AGL/230' MSL. Hangar and light pole beginning 1103' from DER, 732' left of centerline, up to 41' AGL/200' MSL. Trees beginning 2202' from DER, 1052' right of centerline, up to 100' AGL/232' MSL. Trees beginning 2689' from DER, 998' left of centerline, up to 100' AGL/237' MSL.

RICHMOND/ASHLAND, VA
HANOVER COUNTY MUNI (OFP)
ORIG 09239 (FAA)
NOTE: **Rwy 16,** treees beginning 48' from DER, 479' left of centerline, up to 101' AGL/291' MSL. Poles beginning 1077' from DER, 36' left of centerline, up to 36' AGL/236' MSL. Pole 1120' from DER 166' right of centerline 30' AGL/230' MSL. Trees beginning 1307' from DER, 26' left of centerline, up to 108' AGL/298' MSL. Trees beginning 1431' from DER, 319' right of centerline, up to 104' AGL/294' MSL. **Rwy 34,** road and trees beginning 149' from DER, 345' right of centerline, up to 47' AGL/247' MSL. Road and trees beginning 410' from DER, 386' left of centerline, up to 103' AGL/293' MSL. Poles beginning 660' from DER, on centerline, up to 39' AGL/239' MSL. Trees beginning 1402' from DER, 445' right of centerline, up to 100' AGL/290' MSL. Trees beginning 2714' from DER, 487' right of centerline, up to 104' AGL/304' MSL.

RIDGELY, MD
RIDGELY AIRPARK
NOTE: **Rwy 12,** multiple trees beginning 592' from departure end of runway, 6' left of centerline, up to 100' AGL/160' MSL. Multiple trees beginning 239' from departure end of runway, 338' right of centerline, up to 100' AGL/160' MSL.

ROANOKE, VA

ROANOKE RGNL/ WOODRUM FIELD (ROA)
AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 33**, NA - obstacles. **Rwy 24,** std. w/ min. climb of 216' per NM to 2600.

DEPARTURE PROCEDURE: **Rwy 15**, climb heading 154° to intercept the ROA VORTAC R-122 to 4000 before proceeding on course. **Rwy 24**, climb west on I-SZK LDA localizer course on 4200 to DIXXY Int/I-SZK 15.25 DME before proceeding on course.

NOTE: **Rwy 15,** trees 1.18 NM from departure end of runway, 2122' left of centerline, 60' AGL/1321' MSL. **Rwy 24,** bush 86' from departue end of runway, 385' left of centerline, 4' AGL/1163' MSL. Tree 150' from departure end of runway, 415' right of centerline, 60' AGL/1171' MSL. Tree 737' from departure end of runway, 454' right of centerline, 60' AGL/1179' MSL. Tree 1164' from departure end of runway, 726' right of centerline, 60' AGL/1206' MSL.

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)
ORIG 07354 (FAA)

NOTE: **Rwy 5,** trees and antennas beginning 961' from departure end of runway, 49' left of centerline, up to 83' AGL/135' MSL. Trees beginning 2769' from departure end of runway, 5' right of centerline, up to 85' AGL/136' MSL. **Rwy 23,** trees beginning 514' from departure end of runway, 518' left of centerline, up to 68' AGL/118' MSL. Trees and antenna beginning 774' from departure end of runway, 303' right of centerline, up to 76' AGL/127' MSL. Trees beginning 2835' from departure end of runway, 186' right of centerline, up to 75' AGL/125' MSL. **Rwy 32,** trailer, hangar and obstruction light beginning 120' from departure end of runway, 509' left of centerline, up to 23' AGL/72' MSL. Trees beginning 2215' from departure end of runway, 140' left of centerline, up to 79' AGL/128' MSL.

SALUDA, VA

HUMMEL FIELD

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 1000 before turning on course.

NOTE: **Rwy 1,** 23' AGL tree left of departure end of runway, 65' AGL tree 663' from departure end of runway, 129' left of centerline. **Rwy 19,** 26' AGL tree 237' from departure end of runway, 116' right of centerline.

SOUTH BOSTON, VA

WILLIAM M. TUCK

TAKE-OFF MINIMUMS: **Rwy 1,** 300-1. **Rwys 5, 23,** NA.

NOTE: **Rwy 1,** 72' AGL tower 324' from departure end of runway, 283' left of runway centerline.

SOUTH HILL, VA

MECKLENBURG-BRUNSWICK RGNL

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 250' per NM to 1000. **Rwy 19,** 300-1 or std. with a min. climb of 370' per NM to 1000'

DEPARTURE PROCEDURE: **Rwys 1,19,** climb runway heading to 1000 before proceeding on course.

STAFFORD, VA

STAFFORD RGNL

DEPARTURE PROCEDURE: **Rwy 15,** climbing left turn to 2000, intercept and proceed via BRV R-310 to BRV VORTAC, before proceeding on course. **Rwy 33,** climbing left turn to 2000, intercept and proceed via BRV R-306 to BRV VORTAC, before proceeding on course.

NOTE: **Rwy 33,** cross departure end of runway at or above 34' AGL/246' MSL.

STAUNTON-WAYNESBORO-HARRISONBURG, VA

SHENANDOAH VALLEY RGNL (SHD)
AMDT 6 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5,** std. w/ min. climb of 273' per NM to 3800, or 2200-2½ for climb in visual conditions. **Rwy 23,** standard, or 2200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 047° to 3400 before turning right, or for climb in visual conditions cross Shenandoah Valley Rgnl airport at or above 3300 before proceeding on course. **Rwy 23**, climb heading 227° to 4400 before proceeding on course, or for climb in visual conditions cross Shenandoah Valley Rgnl airport at or above 3300 before proceeding on course.

NOTE: **Rwy 5,** trees 1720' from DER, 635' right of centerline, up to 100' AGL/1279' MSL. **Rwy 23,** tree 679' from DER, 616' left of centerline, 35' AGL/1194' MSL.

STEVENSVILLE, MD

BAY BRIDGE

TAKE-OFF MINIMUMS: **Rwy 29,** 500-3 or std. w/ min. climb of 317' per NM to 800.

NOTE: **Rwy 11,** road 354' from departure end of runway, on centerline, 17' AGL/35' MSL. Multiple trees beginning 1471' from departure end of runway, 32' left of centerline, up to 100' AGL/119' MSL. Multiple trees beginning 1485' from departure end of runway, 16' left of centerline, up to 100' AGL/119' MSL. **Rwy 29,** twin bridges 2.25 NM from departure end of runway, 2767' right of centerline, 410' AGL/410' MSL.

SUFFOLK, VA

SUFFOLK EXECUTIVE

TAKE-OFF MINIMUMS: **Rwys 4, 7, 22,** 300-1. **Rwy 25,** 300-1 or std. w/ a min. climb o f260' per NM to 300. Alternatively, with standard takeoff minimums and a normal 200' /NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: **Rwy 4,** trees 1050' from departure end of runway, 250' left of centerline, up to 100' AGL/169' MSL. Trees 1076' from departure end of runway, 105' left of centerline, up to 100' AGL/169' MSL. Powerline 1698' from departure end of runway, 825' right of centerline, 105' AGL/169' MSL. Powerline 3056' from departure end of runway, 524' right of centerline, 105' AGL/174' MSL. **Rwy 7,** trees 1143' from departure end of runway, 688' left of centerline, up to 100' AGL/169' MSL. Powerline 1211' from departure end of runway, 717' right of centerline, 105' AGL/169' MSL. Powerline 2176' from departure end of runway, 259' left of centerline, 105' AGL/169' MSL. Trees 2430' from departure end of runway, 118' right of centerline, up to 100' AGL/169' MSL. Powerline 3140' from departure end of runway, 1263' left of centerline, 105' AGL/174' MSL. **Rwy 22,** road 536' from departure end of runway, 62' left of centerline, 15' AGL/84' MSL. Trees 1403' from departure end of runway, 765' left of centerline, up to100' AGL/169' MSL. Trees 3595' from departure end of runway, 792' right of centerline, up to 100' AGL/174' MSL. **Rwy 25,** road 198' from departure end of runway, 33' right of centerline, 15' AGL/89' MSL. Trees 805' from departure end of runway, 423' right of centerline, up to 100' AGL/169' MSL. Trees 3258' from departure end of runway, 57' right of centerline, up to 100' AGL/174' MSL.

TANGIER, VA

TANGIER ISLAND (TGI)

ORIG 09015 (FAA)

NOTE: **Rwy 2,** vehicle on road 343' from departure end of runway, on centerline, 15' AGL/19' MSL. Boat masts 638' from departure end of runway, 632' right to 755' left of centerline, up to 63' MSL. **Rwy 20,** buildings beginning 7' from departure end of runway, 206' left of centerline, 45' AGL/50' MSL. Rock wall at departure end of runway, 57' right of centerline, 4' AGL/8' MSL.

TAPPAHANNOCK, VA

TAPPAHANNOCK-ESSEX COUNTY

TAKE-OFF MINIMUMS: **Rwy 10,** 300-1¼ or std. w/ min. climb of 303' per NM to 500. **Rwy 28,** 300-1 or std. w/ min. climb of 366' per NM to 500.

NOTE: **Rwy 10,** terrain 6' from departure end of runway, 20' left of centerline, up to 135' MSL. Terrain 29' from departure end of runway, 281' left of centerline, up to 139' MSL. **Rwy 28,** terrain beginning 12' from departure end of runway, 5' right of centerline, up to 151' MSL.

WALLOPS ISLAND, VA

WALLOPS FLIGHT FACILITY (WAL)

ORIG 09127 (FAA)

NOTE: **Rwy 4,** trees beginning 1254' from DER, 741' left of centerline, up to 100' AGL/109' MSL. Trees beginning 1814' from DER, 79' right of centerline, up to 100' AGL/134' MSL. **Rwy 10,** trees beginning 1252' from DER, 818' left of centerline, up to 100' AGL/124' MSL. **Rwy 17,** trees beginning 169' from DER, 218' left of centerline, up to 100' AGL/119' MSL. **Rwy 22,** trees beginning 793' from DER, 315' left of centerline, up to 100' AGL/129' MSL. **Rwy 28,** trees beginning 945' from DER, 495' right of centerline, up to 100' AGL/139' MSL. **Rwy 35,** trees beginning 3' from DER, 394' left of centerline, up to 100' AGL/124' MSL. Trees beginning 21' from DER, 219' right of centerline, up to 100' AGL/124' MSL.

WAKEFIELD, VA

WAKEFIELD MUNI

DEPARTURE PROCEDURE: Climb straight ahead to 500 before proceeding on course.

WARRENTON, VA

WARRENTON-FAUQUIER (HWY)

ORIG 09099 (FAA)

NOTE: **Rwy 15,** trees 436' from DER, 518' right of centerline, 100' AGL/439' MSL. Vehicle on road 647' from DER, 649' right of centerline, 15' AGL/354' MSL. Trees 1034' from DER, 763' left of centerline, 100' AGL/449' MSL. Trees 1924' from DER, 781' right of centerline, 100' AGL/459' MSL. Trees beginning 2239' from DER, 41' left of centerline, up to 100' AGL/459' MSL. **Rwy 33,** trees beginning 1272' from DER, 59' right of centerline, up to 41' AGL/370' MSL. Trees beginning 2610' from DER, 116' left of centerline, up to 74' AGL/413' MSL.

WASHINGTON, DC

RONALD REAGAN WASHINGTON NATIONAL

TAKE-OFF MINIMUMS: **Rwy 22,** 400-2½ or std. with a min. climb of 210' per NM to 500. **Rwy 33**, 700-3 or std. with a min. climb of 260' per NM to 700. **Rwy 1**, 600-2 or std. with a min. climb of 370' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, left turn as soon as practicable, intercept DCA R-328. Climb to 5000 or as assigned. **Rwy 19,** climb heading 184° to 500 before turning right. **Rwy 33,** intercept DCA R-328. Climb to 5000 or as assigned.

NOTE: **Prohibited area, P-56, 1.5 NM north of airport.**

WASHINGTON DULLES INTL (IAD)

AMDT 1 08325 (FAA)

NOTE: **Rwy 1L,** tower 1918' from departure end of runway, 680' left of centerline, 56' AGL/330' MSL. **Rwy 1C,** tree 2814' from departure end of runway, 1030' left of centerline, 86' AGL/345' MSL. **Rwy 1R,** post 12' from departure end of runway, 223' right of centerline, 8' AGL/294' MSL. **Rwy 12,** tree 520' from departure end of runway, 604' left of centerline, 28' AGL/307' MSL. **Rwy 30,** trees beginning 161' from departure end of runway, 520' left of centerline, up to 57' AGL/396' MSL. Trees beginning 532' from departure end of runway, 600' right of centerline, up to 64' AGL/383' MSL.

WEST POINT, VA

MIDDLE PENINSULA RGNL (FYJ)
ORIG 08157 (FAA)
NOTE: **Rwy 10,** multiple trees beginning 86' from departure end of runway, left and right of centerline, up to 100' AGL/129' MSL. **Rwy 28,** multiple trees beginning 33' from departure end of runway, left and right of centerline, up to 100' AGL/119' MSL. Ship mast 3427' from departure end of runway, left and right of centerline, 135' AGL/135' MSL.

WESTMINSTER, MD

CARROLL COUNTY RGNL/JACK B. POAGE FIELD
TAKE-OFF MINIMUMS: **Rwy 16**, 400-1 or std. with a min. climb of 210' per NM to 1300. **Rwy 34,** 300-1 or std. with a min. climb of 320' per NM to 1000.
NOTE: **Rwy 16,** 87' AGL trees 644' from departure end of runway. **Rwy 34,** 102' AGL trees 116' from departure end of runway, 220' right of centerline.

CLEARVIEW AIRPARK (2W2)
ORIG 09239 (FAA)
TAKE-OFF MINIMUMS: **Rwy 32,** 300-2¼ or std. w/ min. climb of 290' per NM to 1200.
NOTE: **Rwy 14,** vehicles and aircraft on road/taxiway 14' from DER, 47' right to left of centerline, 15' AGL/834' MSL. Trees beginning 35' from DER, 200' left of centerline, up to 100' AGL/939' MSL. Trees beginning 21' from DER, 90' right of centerline, up to 100' AGL/919' MSL. **Rwy 32,** vehicle on road 191' from DER, 516' left of centerline, 15' AGL/774' MSL. Trees beginning 8' from DER, 24' left of centerline, up to 100' AGL/959' MSL. Trees beginning 60' from DER, 50' right of centerline, up to 100' AGL/859' MSL.

WILLIAMSBURG, VA

WILLIAMSBURG-JAMESTOWN
TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

WILMINGTON, DE

NEW CASTLE
TAKE-OFF MINIMUMS: **Rwy 19,** 300-1 or std. w/ min. climb of 266' per NM to 300.
NOTE: **Rwy 1,** multiple trees beginning 751' from departure end of runway, 32' left of centerline, up to 59' AGL/120' MSL, tree 1219' from departure end of runway, 482' right of centerline, 57' AGL/118' MSL, bush 118' from departure end of runway, 385' left of centerline, 4' AGL/65' MSL. **Rwy 9,** multiple trees beginning 1229' from departure end of runway, 30' right of centerline up to 62' AGL/133' MSL, tree 975' from departure end of runway, 66' left of centerline, 53' AGL/124' MSL, light pole 948' from departure end of runway, 596' right of centerline, 44' AGL/115' MSL, tree 1740' from departure end of runway, 458' left of centerline, 83' AGL/134' MSL, light pole 945' from departure end of runway, 316' right of centerline, 38' AGL/109' MSL, rod on building 916' from departure end of runway, 457' left of centerline, 29' AGL/100' MSL. **Rwy 14,** obstacle light 553' from departure end of runway, 440' left of centerline, 29' AGL/103' MSL, rod on obstacle light 606' from departure end of runway, 615' left of centerline, 19' AGL/93' MSL. **Rwy 19,** antenna on obstruction light tower 4469' from departure end of runway, 1684' right of centerline, 153' AGL/228' MSL, tree 1575' from departure end of runway, 850' right of centerline, 45' AGL/120' MSL, obstruction light on sign 971' from departure end of runway, 448' left of centerline, 28' AGL/103' MSL. **Rwy 27,** tree 697' from departure end of runway, 533' left of centerline, 68' AGL/147' MSL. Tree 1110' from departure end of runway, 584' right of centerline, 38' AGL/117' MSL, pole 793' from departure end of runway, 615' right of centerline, 28' AGL/107' MSL, bush 408' from departure end of runway, 415' left of centerline, 12' AGL/91' MSL. **Rwy 32,** tree 711' from departure end of runway, 207' right of centerline, 29' AGL/104' MSL, tree 1162' from departure end of runway, 83' right of centerline, 32' AGL/107' MSL.

WINCHESTER, VA

WINCHESTER RGNL
TAKE-OFF MINIMUMS: **Rwy 32,** 800-2 or std. with a min. climb of 210' per NM to 1700.
DEPARTURE PROCEDURE: **Rwy 32,** climb runway heading to 1700 before turning on course.

WISE, VA

LONESOME PINE
TAKE-OFF MINIMUMS: **Rwy 24,** 1800-3 or std. with a min. climb of 400' per NM to 4700.
DEPARTURE PROCEDURE: **Rwy 6,** climb on runway heading to 3800 before proceeding on course.
Rwy 24, climb on runway heading to 4500 before proceeding on course.

NDB RWY 22

NDB APG 349	APCH CRS 226°	Rwy ldg 7997 TDZE 46 Arpt Elev 57

AL-555 [USA]

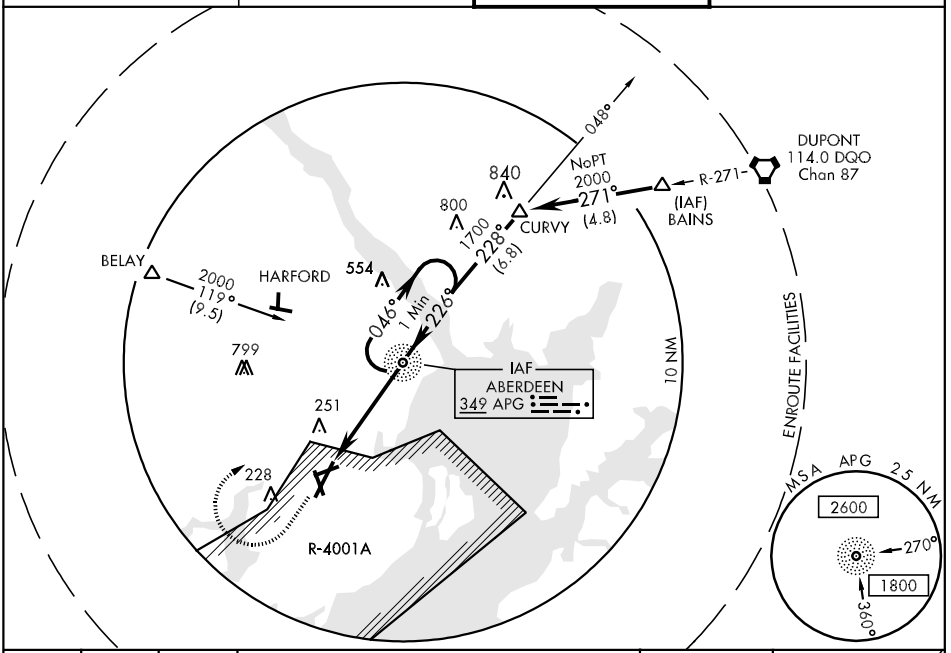
PHILLIPS AAF (APG)

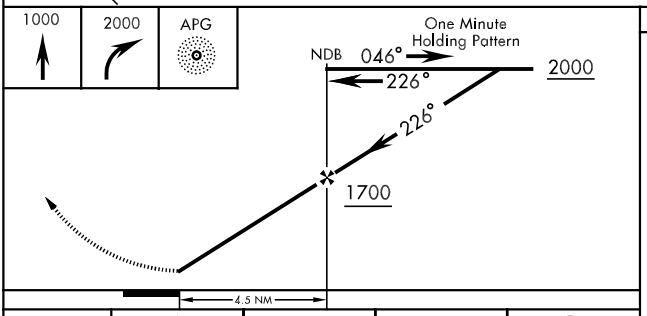
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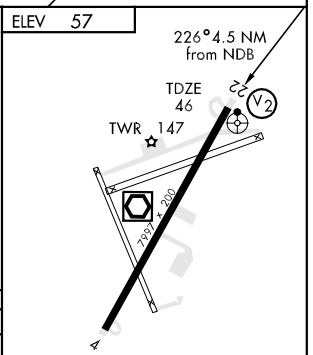
ODALS

MISSED APPROACH: Climb to 1000, then climbing right turn to 2000 direct to APG NDB and hold.

ATIS *	POTOMAC APP CON	PHILLIPS TOWER *	GND CON
108.4	126.75 307.9	126.15 229.6	121.9







CATEGORY	A	B	C	D
S-22	560-¾ 514(600-¾)		560-1¼ 514(600-1¼)	560-1½ 514(600-1½)
CIRCLING	560-1 502(600-1)		600-1½ 542(600-1½)	680-2 622(700-2)
* BALTIMORE ALTIMETER SETTING MINIMUMS				
S-22	640-¾ 594(600-¾)		640-1¼ 594(600-1¼)	640-1½ 594(600-1½)
CIRCLING	640-1 582(600-1)		680-1¾ 622(700-1¾)	760-2¼ 702(800-2¼)

HIRL Rwy 4-22

FAF to MAP 4.5 NM					
Knots	60	90	120	150	180
Min:Sec	4:30	3:00	2:15	1:48	1:30

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 22

APCH CRS	Rwy ldg	7997
218°	TDZE	45
	Arpt Elev	57

AL-555 [USA]

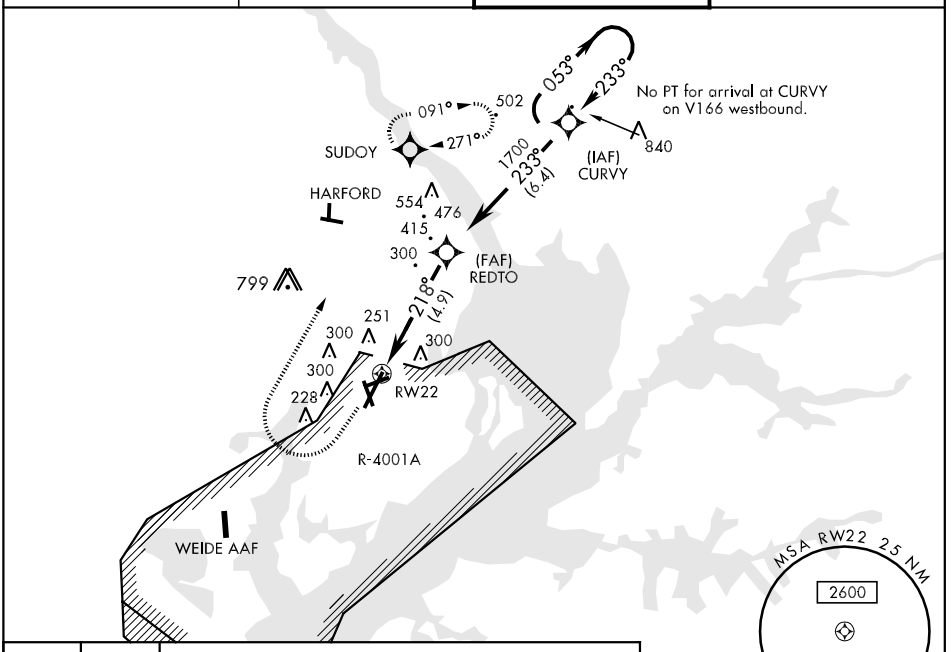
PHILLIPS AAF (APG)

▲ *For inoperative ODALS, increase LNAV all CATS visibility ¼ mile.
**When local altimeter setting not received, use Baltimore altimeter setting.
▼ VDP NA with Baltimore altimeter setting.
DME/DME RNP-.3 NA

ODALS

MISSED APPROACH: Climbing right turn to 2000 direct SUDOY and hold.

ATIS ★	POTOMAC APP CON	PHILLIPS TOWER ★	GND CON
108.4	126.75 307.9	126.15 229.6	121.9



CATEGORY	A	B	C	D
LNAV MDA*	560-¾ 515(600-¾)		560-1¼ 515(600-1¼)	560-1½ 515(600-1½)
CIRCLING	560-1 503(600-1)		560-1½ 503(600-1½)	620-2 563(600-2)
** BALTIMORE ALTIMETER SETTING MINIMUMS				
LNAV MDA*	640-¾ 595(600-¾)		640-1¼ 595(600-1¼)	640-1½ 595(600-1½)
CIRCLING	640-1 583(600-1)		640-1½ 583(600-1½)	640-2 583(600-2)

HIRL Rwy 4-22

NE-3, 03 JUN 2010 to 01 JUL 2010

VOR/DME RWY 22

VOR/DME PPM 108.4 Chan 21	APCH CRS 226°	Rwy ldg 7997 TDZE 46 Arpt Elev 57

AL-555 [USA]

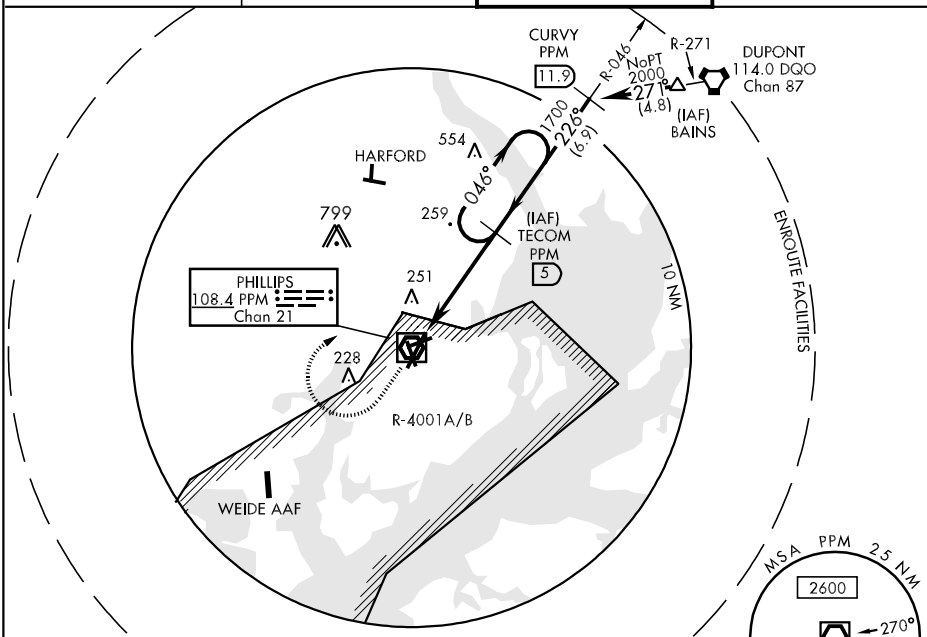
PHILLIPS AAF (APG)

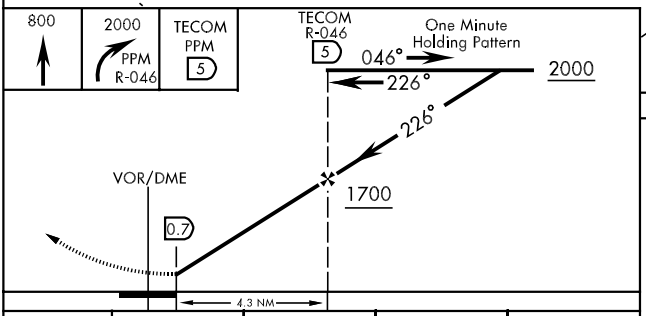
▲ ▼ * When local altimeter setting not received use Baltimore altimeter setting.

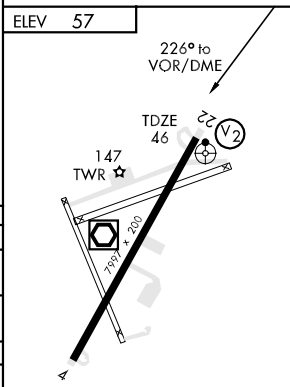
ODALS

MISSED APPROACH: Climb to 800, then climbing right to 2000 via PPM R-046 to TECOM/5 DME and hold.

ATIS ★	POTOMAC APP CON	PHILLIPS TOWER ★	GND CON
108.4	126.75 307.9	126.15 229.6	121.9







CATEGORY	A	B	C	D
S-22	500-1 454(500-1)		500-1¼ 454(500-1¼)	500-1½ 454(500-1½)
CIRCLING	520-1 462-(500-1)	560-1 502(600-1)	600-1½ 542(600-1½)	680-2 622(700-2)
* BALTIMORE ALTIMETER SETTING MINIMUMS				
S-22	580-1 534(600-1)		580-1½ 534(600-1½)	580-1¾ 534(600-1¾)
CIRCLING	580-1 522(600-1)	640-1 582(600-1)	680-1¾ 622(700-1¾)	760-2¼ 702(800-2¼)

NE-3, 03 JUN 2010 to 01 JUL 2010

VOR RWY 22

VOR/DME PPM 108.4 Chan 21	APCH CRS 225°	Rwy ldg 7997 TDZE 45 Arpt Elev 57	AL-555 [USA]	PHILLIPS AAF (APG)

* For inoperative ODALS, increase S-22 all CATs vis ½ mile.
** When local altimeter setting not received, use Baltimore altimeter setting.
VDP NA with Baltimore altimeter setting.

ODALS

MISSED APPROACH: Climb to 1000, then climbing right turn to 2000 direct APG NDB and hold.

ATIS ★	POTOMAC APP CON	PHILLIPS TOWER ★	GND CON
108.4	126.75 307.9	126.15 229.6	121.9

FAC crosses Rwy center line extended 2,707' from THLD.

Procedure N/A for arrivals at CURVY via V166 eastbound.

(IAF) CURVY 2000 No PT

1700 228° (6.8)

Descend to 2000 in APG NDB holding pattern prior to proceeding inbound.

IAF ABERDEEN 349 APG

HARFORD

BELAY 2000 119° (9.5)

ADF REQUIRED

R-4001A

PHILLIPS 108.4 PPM Chan 21

WEIDE AAF

10 NM

MSA PPM 25 NM
2600
270°
1800
360°

1000 2000 APG

NDB 046° 226° 2000

VOR/DME PPM 2.1

225° 226° 1700

VGSI and descent angles not coincident.

3.38° TCH 59

4.5 NM

ELEV 57

225° to VOR/DME

TDZE 45 22 V2

147 TWR

799 x 200

HIRL Rwy 4-22

CATEGORY	A	B	C	D
S-22 *	560-¾ 515(600-¾)		560-1¼ 515(600-1¼)	560-1½ 515(600-1½)
CIRCLING	560-1 503(600-1)		560-1½ 503(600-1½)	620-2 563(600-2)
** BALTIMORE ALTIMETER SETTING MINIMUMS				
S-22 *	640-¾ 595(600-¾)		640-1¼ 595(600-1¼)	640-1½ 595(600-1½)
CIRCLING	640-1 583(600-1)		640-1½ 583(600-1½)	640-2 583(600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	N/A
298°	TDZE	N/A
	Apt Elev	34

RNAV (GPS)-A

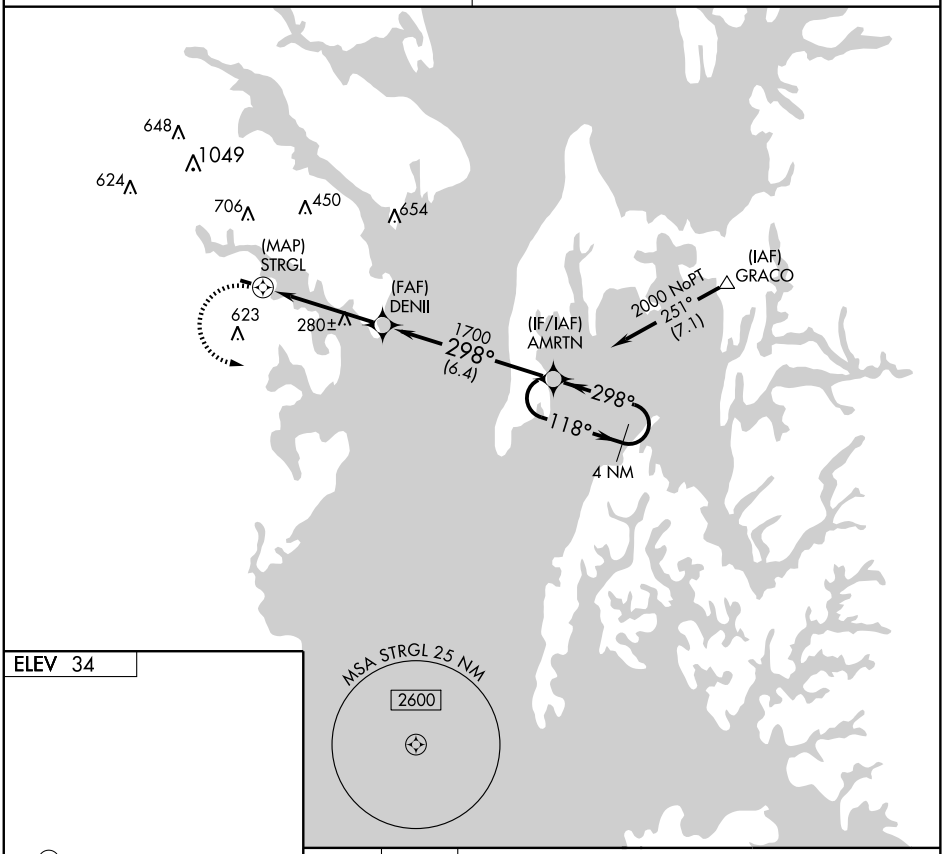
ANNAPOLIS / LEE (ANP)

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Baltimore-Washington Intl altimeter setting and increase all MDA 60 feet.

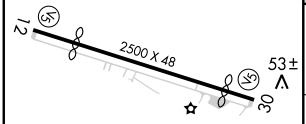
MISSED APPROACH: Climbing left turn to 2000 direct AMRTN and hold.

POTOMAC APP CON
119.7 290.475

CTAF (L) 122.9



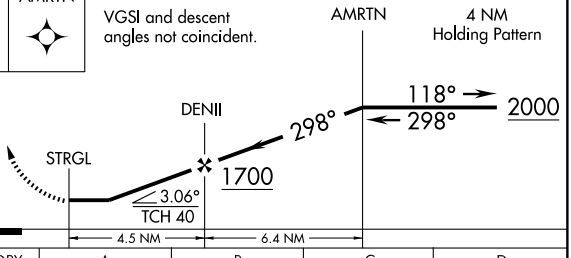
ELEV 34



LIRL Rwy 12-30 (L)

2000	AMRTN

VGSI and descent angles not coincident.



CATEGORY	A	B	C	D
CIRCLING	660-1	626 (700-1)	NA	

NE-3. 03 JUN 2010 to 01 JUL 2010

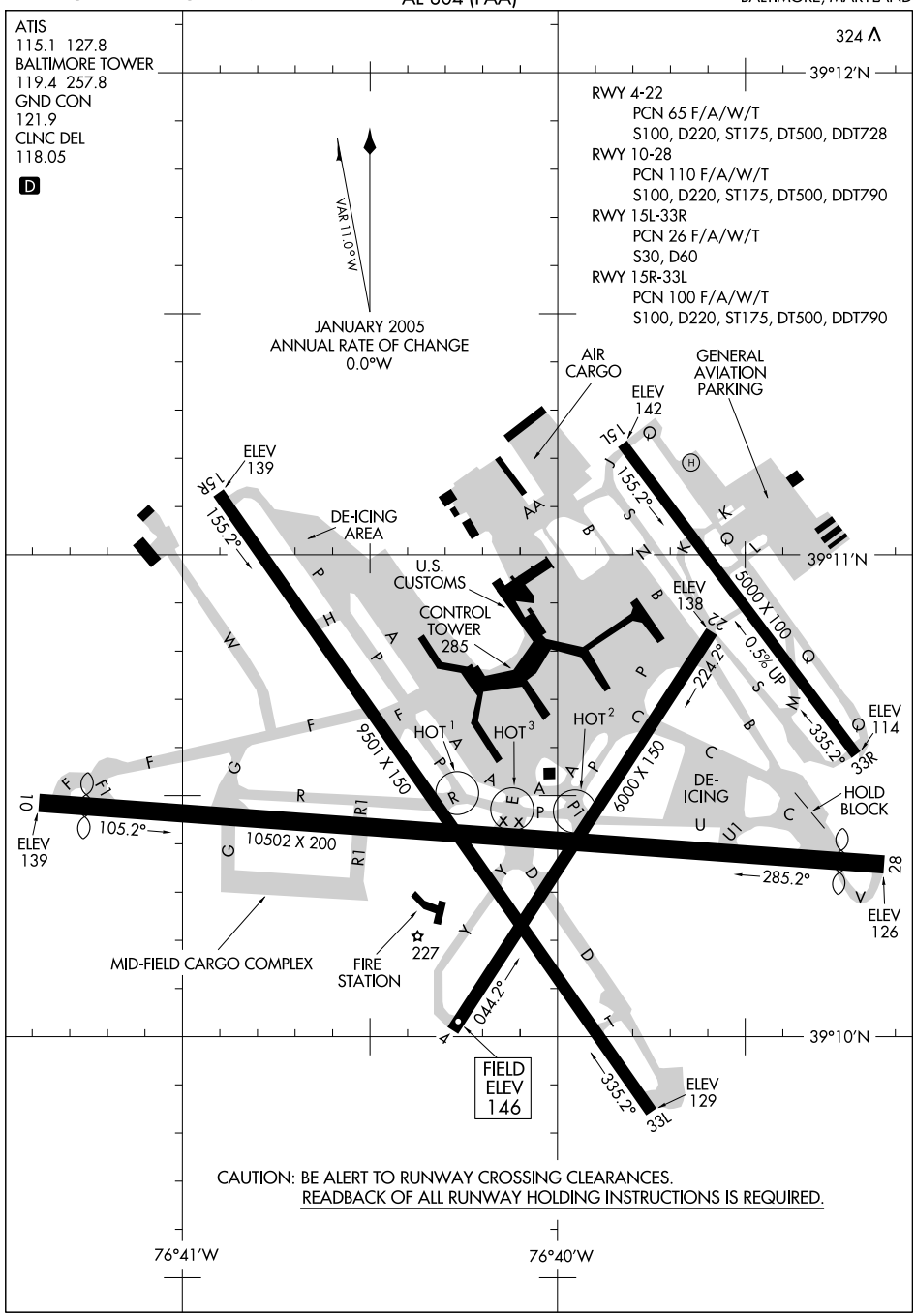
10042

AIRPORT DIAGRAM

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

AL-804 (FAA)

BALTIMORE, MARYLAND



NE-3, 03 JUN 2010 to 01 JUL 2010

LOC I-BAL	APP CRS	Rwy ldg	9952
109.7	105°	TDZE	143
		Apt Elev	146

ILS or LOC RWY 10

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

DME Required.

ALSF-2

MISSED APPROACH: Climb to 2500 via BAL R-105 to HURTZ/BAL 12.1 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED

117.9 EMI Chan 126

R-127

R-025

1549

ENSUE EMI 23.1

113.7 OTT Chan 84

ALTERNATE MISSED APCH FIX

117.9 EMI Ch 126

307°

127°

R-025

R-127

ENSUE EMI 23.1

113.7 OTT Ch 84

1504

670

731

961

685

604

281±

340

281

245±

242±

741

BAL R-286

285°

1500

105°

(6.1)

555

(IF) COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

MM

IM

290

372

560

591

533

LOCALIZER 109.7 I-BAL

BALTIMORE 115.1 BAL Chan 98

R-105

105°

285°

HURTZ BAL 12.1 RADAR

10 NM

MSA BAL 25 NM

2600

090°

2100

360°

1049

ELEV 146 D

289±

260

256±

170

15R

15L

5000 X 100 0.5% UP

262

9501 X 150

Z2

285

167

15C

162

33R

10

10502 X 200

A

TDZE 143

6000

227

28

33L

189

250

105° 4.1 NM from FAF

COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

2500

BAL R-105 115.1

HURTZ BAL 12.1 RADAR

2000

1500

105°

MM

IM

GS 3.00° TCH 55

1500

6.1 NM

3.6 NM

0.3 NM

0.2

CATEGORY	A	B	C	D
S-ILS 10	343/18 200 (200-½)			
S-LOC 10	580/24 437 (500-½)		580/40 437 (500-¾)	580/50 437 (500-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 4.1 NM

Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-UQC	APP CRS	Rwy Idg	5000
111.95	155°	TDZE	142
		Apt Elev	146

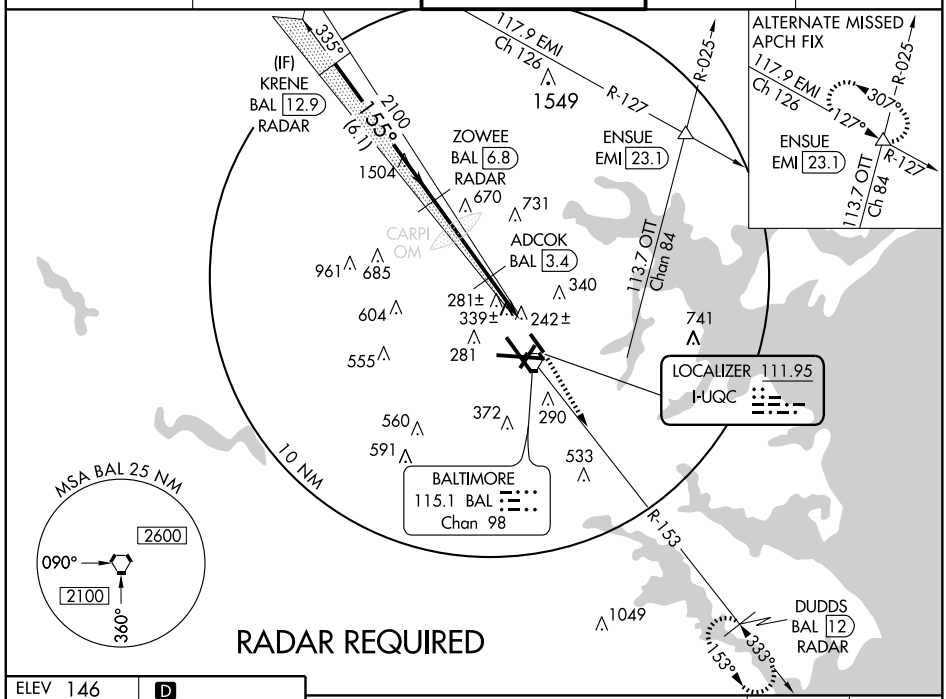
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

ILS or LOC RWY 15L

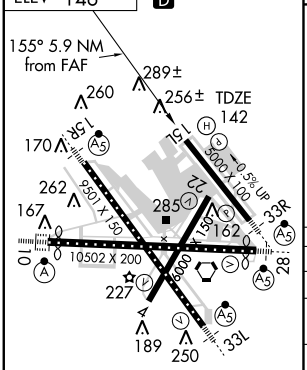
DME Required.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2500 via heading 155° and BAL R-153 to DUDDS/BAL 12 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

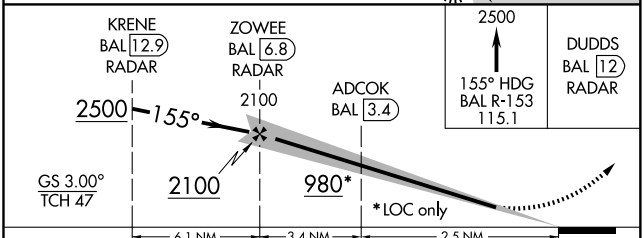


RADAR REQUIRED



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-ILS 15L	471/60 329 (400-1¼)			
S-LOC 15L	980/50 838 (900-1)	980/60 838 (900-1¼)	980-2½ 838 (900-2½)	980-2¾ 838 (900-2¾)
CIRCLING	980-1 834 (900-1)	980-1¼ 834 (900-1¼)	980-2½ 834 (900-2½)	980-2¾ 834 (900-2¾)
ADCOK FIX MINIMUMS				
S-LOC 15L	560/50 418 (500-1)		560/60 418 (500-1¼)	
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-OEH	APP CRS	Rwy Idg	10002
109.7	285°	TDZE	142
		Apt Elev	146

ILS or LOC RWY 28

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

DME Required.
** RVR 1800 authorized with the use of FD or AP or HUD to DA.
ZIXUS Fix mimimums: For inoperative MALSR, increase S-LOC 28 Cat D visibility to RVR 5000.

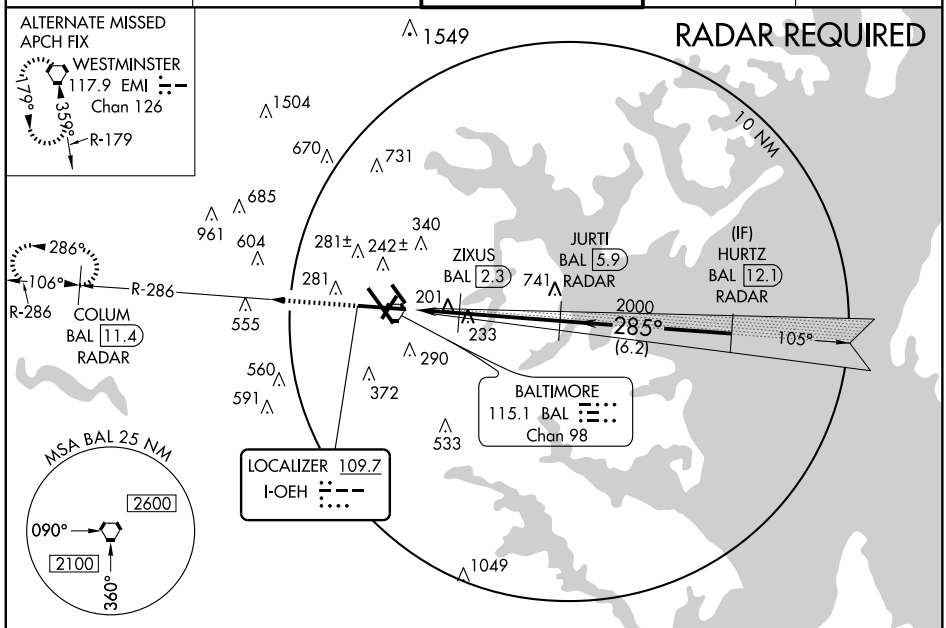
MALSR

MISSED APPROACH: Climb to 2500 via BAL R-286 to COLUM/BAL 11.4 DME/ RADAR and hold.

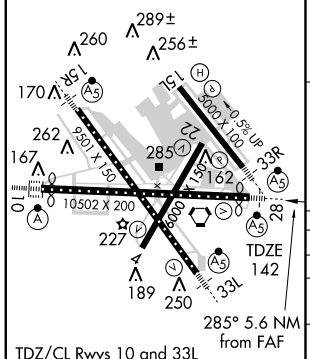
ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

ALTERNATE MISSED APCH FIX
WESTMINSTER 117.9 EMI Chan 126
079°
359°
R-179

RADAR REQUIRED



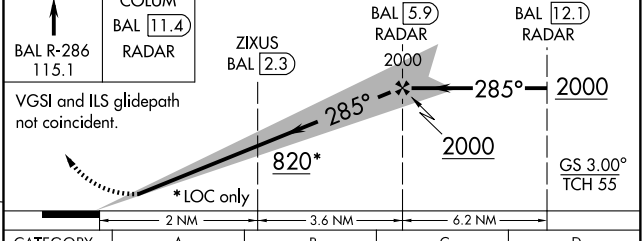
ELEV 146 D



285° 5.6 NM from FAF

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52



CATEGORY	A	B	C	D
S-ILS 28	**342/24 200 (200-½)			
S-LOC 28	820/24 678 (700-½)		820-1½ 678 (700-1½)	820-1¾ 678 (700-1¾)
CIRCLING	820-1 674 (700-1)		820-2 674 (700-2)	820-2¼ 674 (700-2¼)
ZIXUS FIX MINIMUMS				
S-LOC 28	460/24 318 (400-½)			460/40 318 (400-¾)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (500-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-RUX	APP CRS	Rwy Idg	9501
111.7	335°	TDZE	142
		Apt Elev	146

ILS or LOC RWY 33L

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

DME Required.

MALSR

MISSED APPROACH: Climb to 3000 via BAL R-334 to BMORE/BAL 13.8 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

ALTERNATE MISSED APCH FIX
WESTMINSTER 117.9 EMI Chan 126
R-179

RADAR REQUIRED

BMORE BAL 13.8 RADAR
154°
334°
R-334
1549
1504
670
731
685
961
LOCALIZER 111.7 I-RUX
281±
340
604
242±
741
281
555
BALTIMORE 115.1 BAL Chan 98
560
372
290
591
RUETT OM
GRAFE BAL 4.4 RADAR
533
1500
335° (8.6)
1049
10 NM
(IF) JANNS BAL 13 RADAR
155°

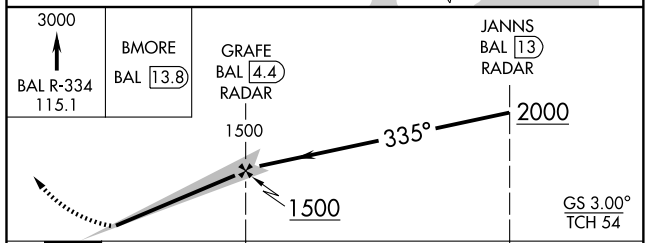
MSA BAL 25 NM
2600
090°
2100
360°

ELEV 146 D

289±
260
256±
170
262
167
285
162
227
189
250
9501 X 150
10502 X 200
5000 X 100 0.5% UP
TDZE 142
335° 4.1 NM from FAF

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 4.1 NM					
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22



CATEGORY	A	B	C	D
S-ILS 33L	342/18 200 (200-½)			
S-LOC 33L	540/24 398 (400-½)			540/40 398 (400-¾)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

LOC I-BWI	APP CRS	Rwy Idg	5000
111.95	335°	TDZE	124
		Apt Elev	146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

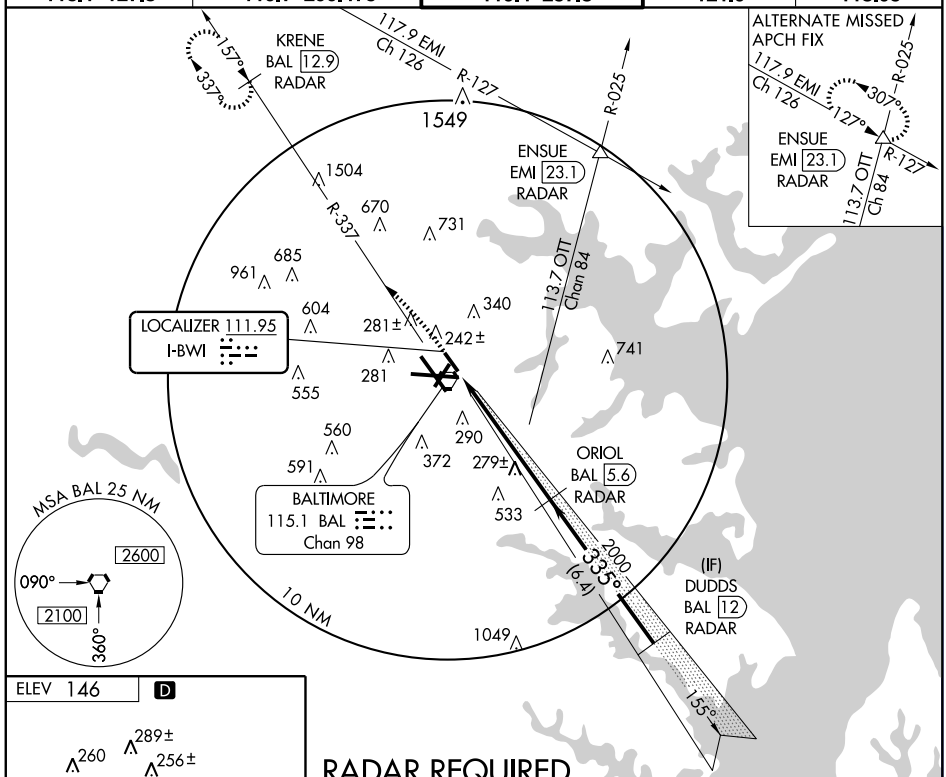
ILS or LOC RWY 33R

Autopilot coupled approach NA below 700. DME required.

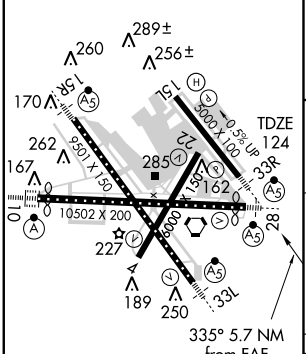
MALSR

MISSED APPROACH: Climb to 3000 via heading 335° and via BAL R-337 to KRENE/BAL 12.9 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

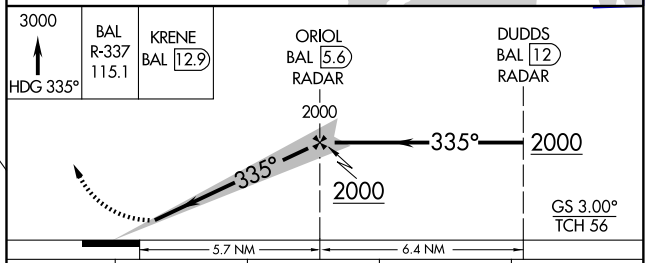


RADAR REQUIRED



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54



CATEGORY	A	B	C	D
S-ILS 33R	331/24	207 (200-½)		
S-LOC 33R	540/24	416 (400-½)	540/40	416 (400-¾)
CIRCLING	640-1	494 (500-1)	640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

LOC I-BAL	APP CRS	Rwy ldg	9952
109.7	105°	TDZE	143
		Apt Elev	146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

ILS RWY 10 (CAT II)

DME Required.

ALSF-2

MISSED APPROACH: Climb to 2500 via BAL R-105 to HURTZ/BAL 12.1 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED

117.9 EMI Chan 126

R-127

R-025

1549

ENSUE EMI 23.1

113.7 OTT Chan 84

ALTERNATE MISSED APCH FIX

117.9 EMI Ch 126

307°

127°

R-025

R-127

ENSUE EMI 23.1

113.7 OTT Ch 84

1504

670

731

961

685

604

281±

340

281

245±

242±

741

LOCALIZER 109.7 I-BAL

1500

285°

105°

(6.1)

555

(IF) COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

MM

IM

290

372

560

591

533

BALTIMORE 115.1 BAL Chan 98

R-105

105°

285°

HURTZ BAL 12.1 RADAR

10 NM

MSA BAL 25 NM

2600

090°

2100

360°

1049

ELEV 146

D

289±

260

256±

170

262

167

285

162

10502 X 200

9501 X 150

6000 X 150

5000 X 100

0.5% UP

TDZE 143

227

189

250

10

28

33R

33L

15R

15L

12

COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

2000

1500

105°

GS 3.00°

TCH 55

MM

IM

DH RA 104

143 MSL

2500

BAL R-105 115.1

HURTZ BAL 12.1 RADAR

6.1 NM | 3.6 NM | 0.3 NM | 893' | 1014'

CATEGORY	A	B	C	D
S-ILS 10	RA 104/12	100	DA 243	

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-BAL	APP CRS	Rwy ldg	9952
109.7	105°	TDZE	143
		Apt Elev	146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

ILS RWY 10 (CAT III)

DME Required.

ALSF-2

MISSED APPROACH: Climb to 2500 via BAL R-105 to HURTZ/BAL 12.1 DME/RADAR and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED

117.9 EMI Chan 126

R-127

R-025

1549

ENSUE EMI 23.1

113.7 OTT Chan 84

ALTERNATE MISSED APCH FIX

117.9 EMI Ch 126

307°

127°

R-025

R-127

ENSUE EMI 23.1

113.7 OTT Ch 84

1504

670

731

961

685

604

281±

340

281

245±

242±

1500

285°

105°

(6.1)

555

741

LOCALIZER 109.7 I-BAL

(IF) COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

MM

IM

290

372

560

591

533

BALTIMORE 115.1 BAL Chan 98

R-105

105°

285°

HURTZ BAL 12.1 RADAR

MSA BAL 25 NM

10 NM

2600

090°

2100

360°

1049

ELEV 146

D

COLUM BAL 11.4 RADAR

JEANS BAL 5.3 RADAR

MM

355

IM

244

2000

1500

105°

GS 3.00°

TCH 55

143 MSL

6.1 NM

3.6 NM

2117′

918′

1014′

2500

BAL R-105 115.1

HURTZ BAL 12.1 RADAR

CATEGORY	A	B	C	D
S-ILS 10		CAT IIIa	RVR 07	
S-ILS 10		CAT IIIb	RVR 06	
S-ILS 10		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

289±

260

256±

170

15R

15L

5000 X 100

0.5% UP

262

9501 X 150

22

285

167

150

162

33R

10

10502 X 200

8000

28

TDZE 143

227

189

250

33L

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-FND	APP CRS	Rwy Idg	9501
111.7	155°	TDZE	139
		Apt Elev	146

ILS RWY 15R

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

*RVR 1800 authorized with use of FD or AP or HUD to DA. DME from BAL VORTAC.

MALSR

MISSED APPROACH: Climb to 900, then climbing right turn to 2500 via BAL R-294 to DATED Int/BAL 14.9 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

†2700 when authorized by ATC.

MSA BAL 25 NM
2600
090°
2100
360°

IAF
WESTMINSTER
117.9 EMI
Chan 126

†4000
150°
(10.6)
335°
2500
155°
(5)
R-187
187°
7000
R-294
10 NM

1549
1549
BMORE
BAL 13.8
RADAR
1504
BLABR
BAL 8.8
RADAR
670
731
685
961
604
555
281±
281
242±
340
741
560
290
372
591
533
DATED
BAL 14.9
BALTIMORE
115.1 BAL
Chan 98
LOCALIZER 111.7
I-FND

DME or RADAR REQUIRED

ELEV 146 D

155° 3.8 NM from FAF

TDZE 139
289±
260
256±
170
262
167
285
227
189
250
9501 X 150
10502 X 200
6000 X 100
0.5% UP
15L
15R
33R
33L
10
28

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

900	2500	BAL R-294 115.1	DATED △

BMORE
BAL 13.8
RADAR
BLABR
BAL 8.8
RADAR
†4000
155°
2659
GS 3.00°
TCH 62
2500
BAL
1.3

†2700 when authorized by ATC.
#CIRCLING requires descent on glideslope to MDA.

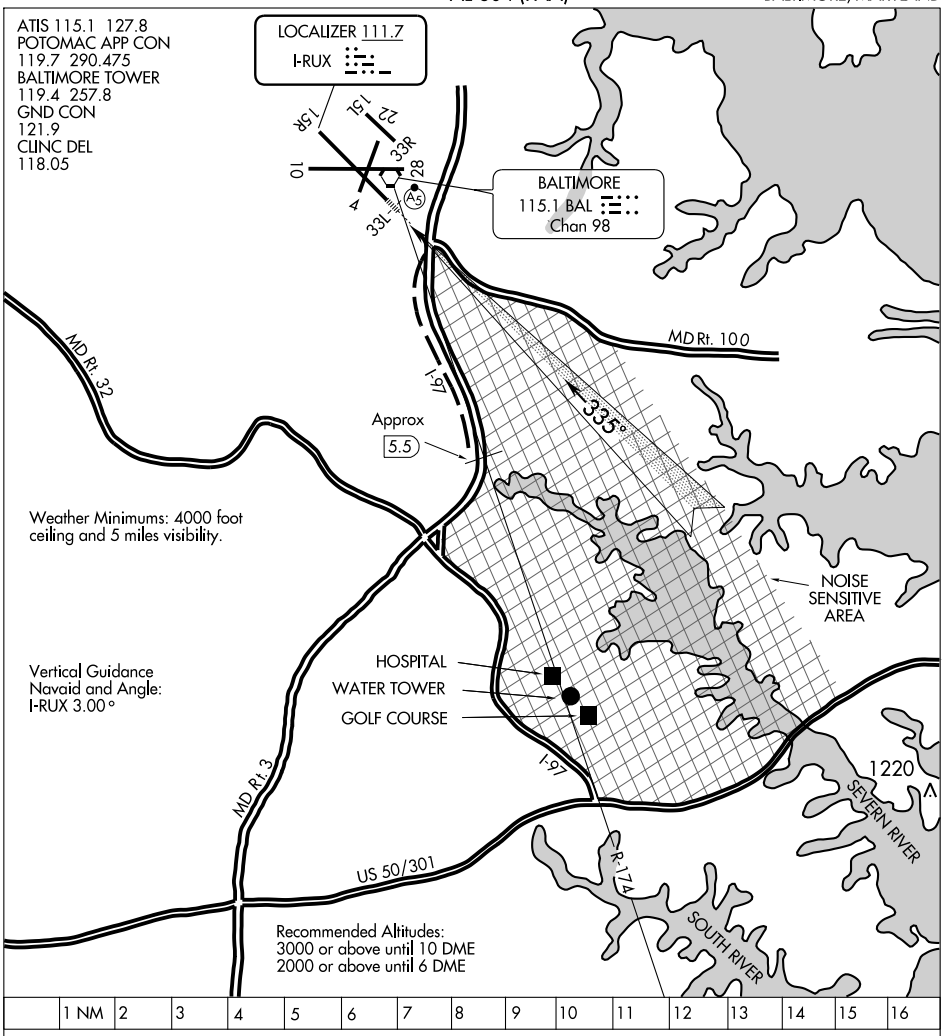
5 NM 7.5 NM

CATEGORY	A	B	C	D
S-ILS 15R	*339/24		200 (200-½)	
CIRCLING	720-1 574 (600-1)		720-1½ 574 (600-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

INTERSTATE VISUAL RWY 33L

WASHINGTON INTL THURGOOD MARSHALL (BWI)
AL-804 (FAA)
BALTIMORE, MARYLAND

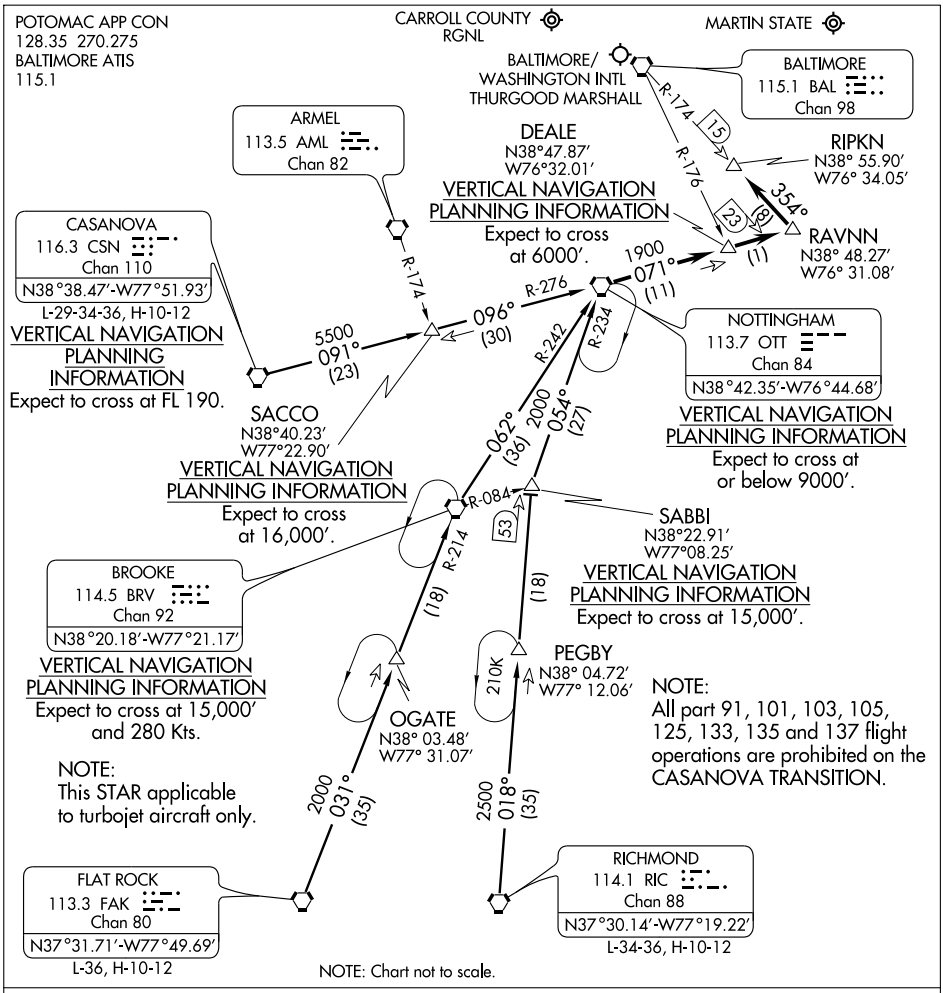


INTERSTATE VISUAL RWY 33L

Radar vectors will be provided to the BAL 174 RADIAL. When cleared for the Interstate Visual Runway 33L Approach, aircraft will proceed via the BAL 174 radial until over I-97 (Approx. 5.5 DME). Then via I-97 to join Runway 33L final approach course. Runway 33L ILS with MALSR will be on and available for use. Noise sensitive area east of I-97. This procedure applicable to turbo-jets arriving via OTT VORTAC.

NOTTINGHAM SIX ARRIVAL

BALTIMORE, MARYLAND



ARRIVAL ROUTE DESCRIPTION

CASANOVA TRANSITION (CSN.OTT6): From over CSN VORTAC via CSN R-091 and OTT R-276 to OTT VORTAC. Thence

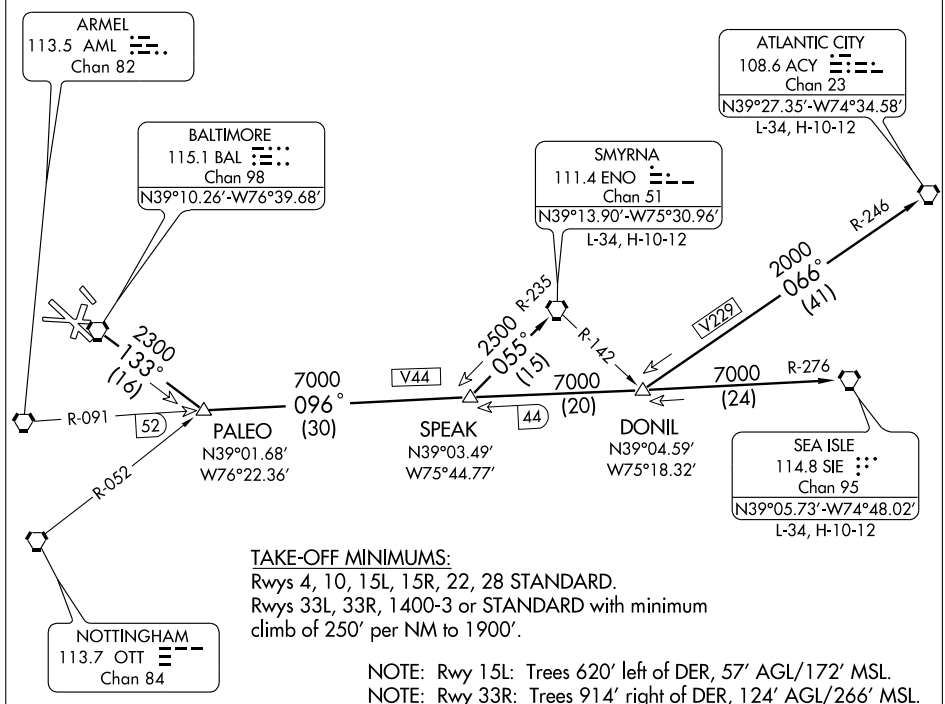
FLAT ROCK TRANSITION (FAK.OTT6): From over FAK VORTAC via FAK R-031 and BRV R-214 to BRV VORTAC, then via OTT R-242 to OTT VORTAC. Thence

RICHMOND TRANSITION (RIC.OTT6): From over RIC VORTAC via RIC R-018 to SABBI INT, then via OTT R-234 to OTT VORTAC. Thence From over OTT VORTAC via OTT R-071 to RAVNN INT, then via BAL R-174 to RIPKN INT. Expect radar vectors to final approach course after passing RIPKN INT.

PALEO THREE DEPARTURE

BALTIMORE/
WASHINGTON INTL THURGOOD MARSHALL (BWI)
SL-804 (FAA)
BALTIMORE, MARYLAND

ATIS 115.1 127.8
CLNC DEL 118.05
GND CON 121.9
BALTIMORE TOWER
119.4 257.8



TAKE-OFF MINIMUMS:
Rwys 4, 10, 15L, 15R, 22, 28 STANDARD.
Rwys 33L, 33R, 1400-3 or STANDARD with minimum climb of 250' per NM to 1900'.

NOTE: Rwy 15L: Trees 620' left of DER, 57' AGL/172' MSL.
NOTE: Rwy 33R: Trees 914' right of DER, 124' AGL/266' MSL.
Trees 648' left of DER, 106' AGL/248' MSL.
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 28:
JETS: Fly runway heading until 3 DME, then turn left heading 150°. Thence
PROPS: Fly runway heading. Thence
TAKE-OFF ALL OTHER RUNWAYS: Fly runway heading. Thence
. . . . For vectors to transition or assigned route, expect clearance to filed altitude ten minutes after departure.

ATLANTIC CITY TRANSITION (PALEO3.ACY): From over BAL VORTAC via BAL R-133 to PALEO INT, then via SIE VORTAC R-276 to DONIL INT, then via ACY VORTAC R-246 to ACY VORTAC.

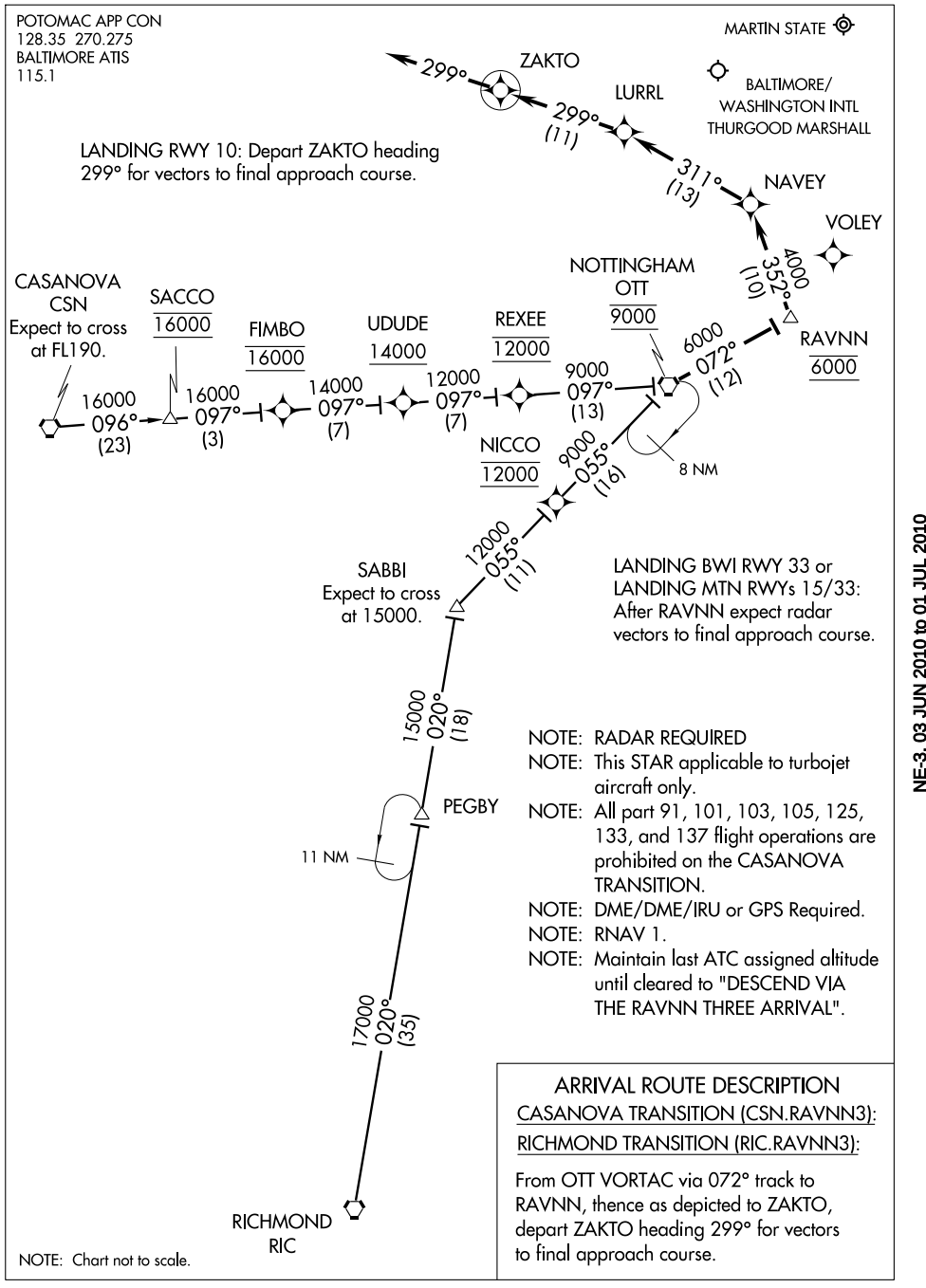
SEA ISLE TRANSITION (PALEO3.SIE): From over BAL VORTAC via BAL R-133 to PALEO INT, then via SIE VORTAC R-276 to SIE VORTAC.

SMYRNA TRANSITION (PALEO3.ENO): From over BAL VORTAC via BAL R-133 to PALEO INT, then via SIE VORTAC R-276 to SPEAK INT, then via ENO VORTAC R-235 to ENO VORTAC.

NE-3, 03 JUN 2010 to 01 JUL 2010

RAVNN THREE ARRIVAL (RNAV)

BALTIMORE, MARYLAND



ARRIVAL ROUTE DESCRIPTION

CASANOVA TRANSITION (CSN.RAVNN3):

RICHMOND TRANSITION (RIC.RAVNN3):

From OTT VORTAC via 072° track to RAVNN, thence as depicted to ZAKTO, depart ZAKTO heading 299° for vectors to final approach course.

NOTE: Chart not to scale.

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	6000
058°	TDZE	146
	Apt Elev	146

RNAV (GPS) RWY 4

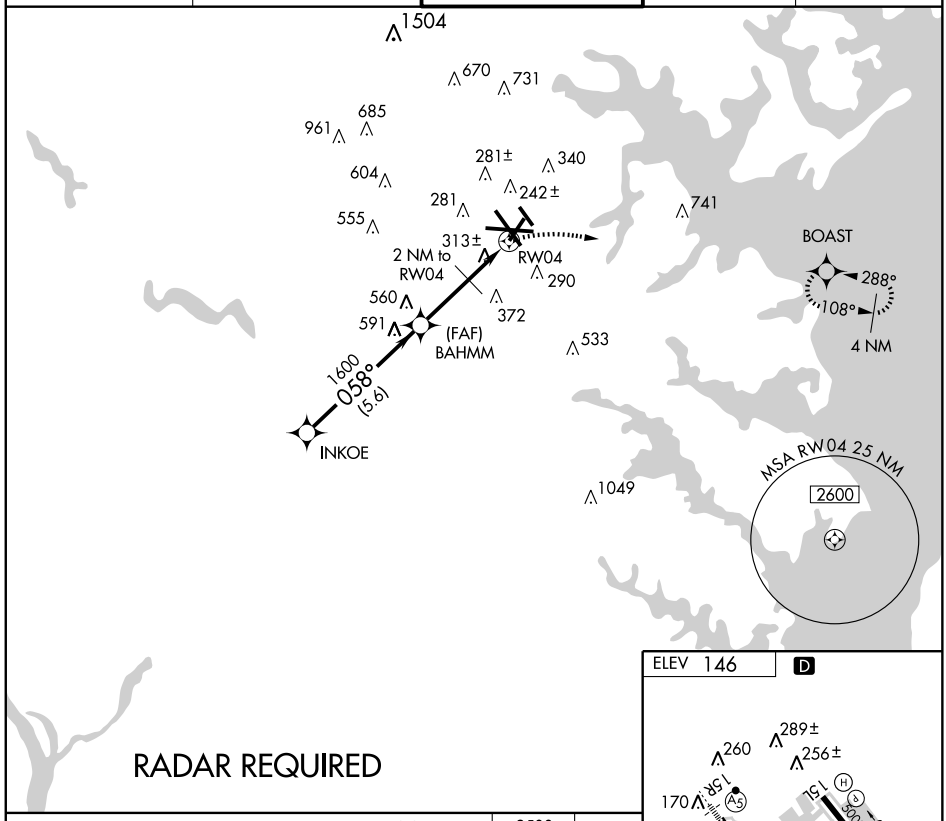
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

NA

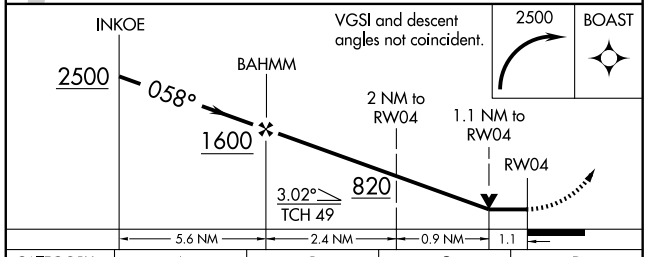
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 2500 direct BOAST WP and hold.

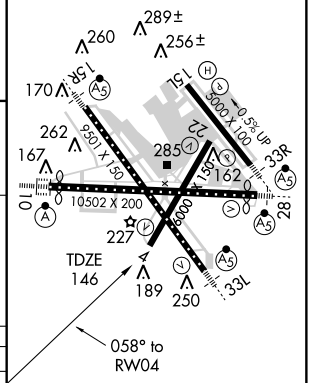
ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05



RADAR REQUIRED



CATEGORY	A	B	C	D
LNAV MDA	540-1 394 (400-1)			540-1¼ 394 (400-1¼)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

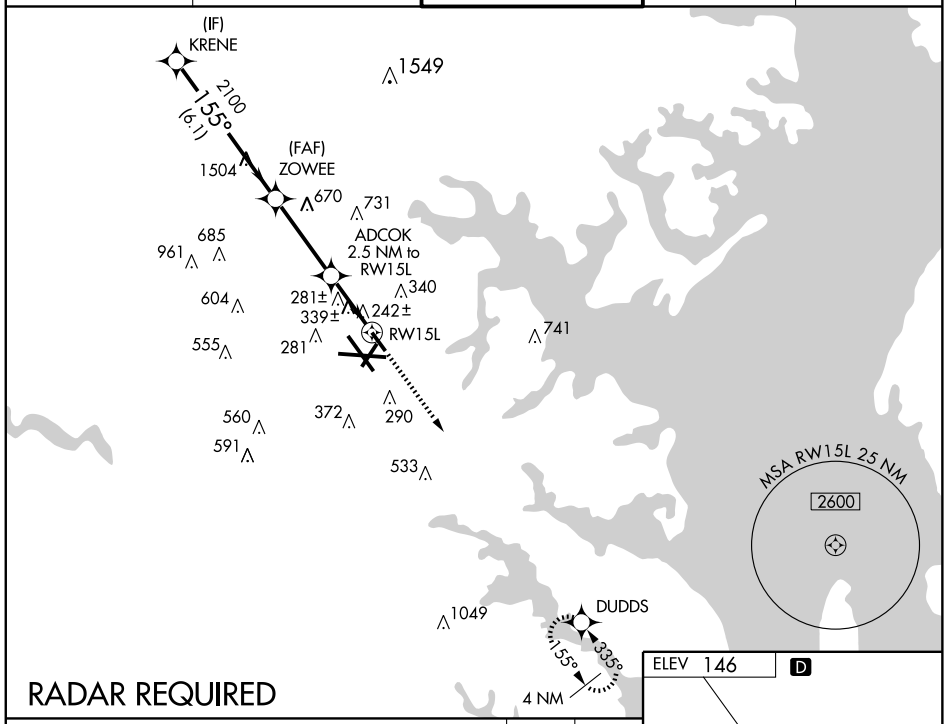
WAAS	APP CRS	Rwy Idg	5000
CH 40108	155°	TDZE	142
W15A		Apt Elev	146

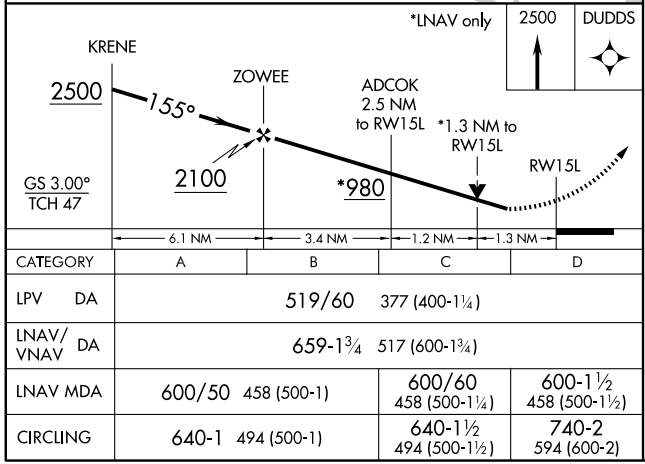
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) RNAV (GPS) RWY 15L

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

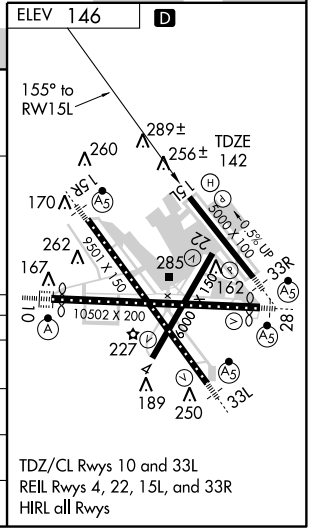
MISSED APPROACH: Climb to 2500 direct DUDDS and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05





CATEGORY	A	B	C	D
LPV DA	519/60 377 (400-1¼)			
LNAV/ VNAV DA	659-1¾ 517 (600-1¾)			
LNAV MDA	600/50 458 (500-1)		600/60 458 (500-1¼)	600-1½ 458 (500-1½)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all Rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	6000
224°	TDZE	143
	Apt Elev	146

RNAV (GPS) RWY 22

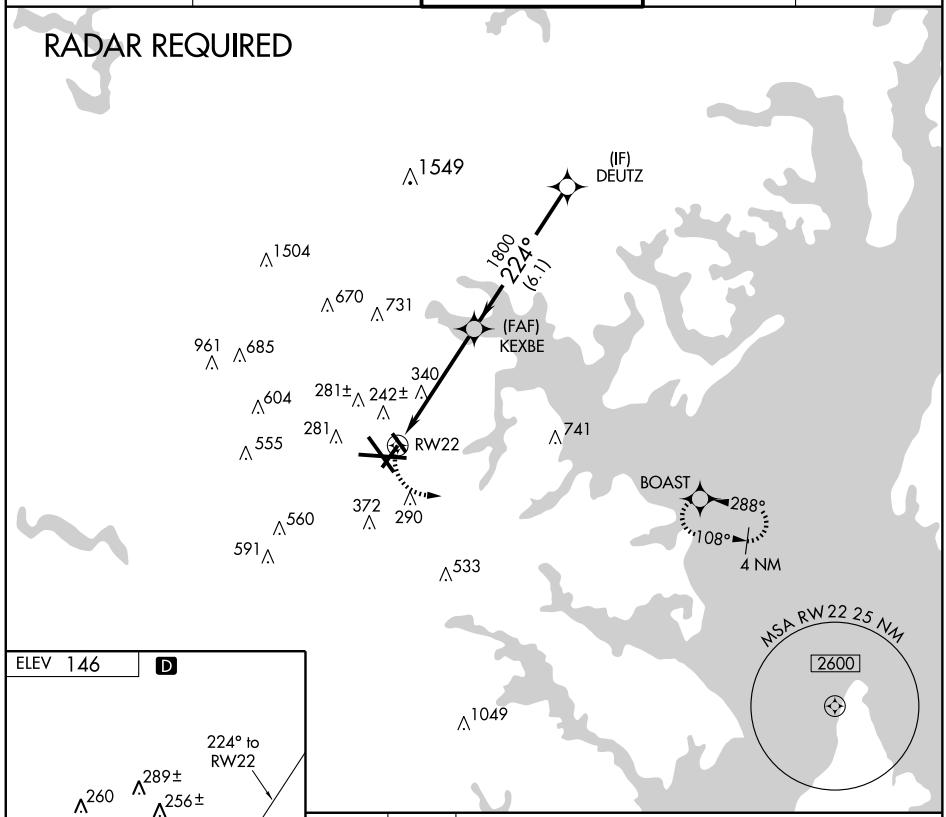
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

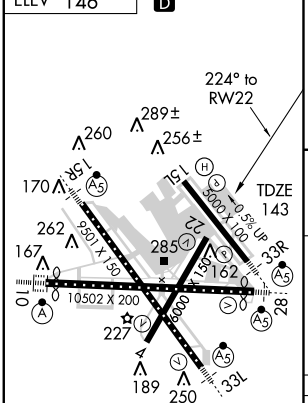
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 2500 direct BOAST and hold.

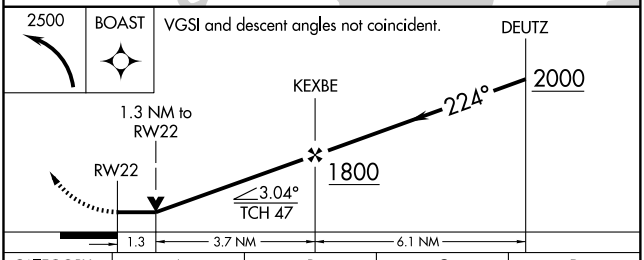
ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED





TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys



CATEGORY	A	B	C	D
LNAV MDA	600-1 457 (500-1)		600-1¼ 457 (500-1¼)	600-1½ 457 (500-1½)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 69208 W33B	APP CRS 335°	Rwy Idg 5000 TDZE 124 Apt Elev 146

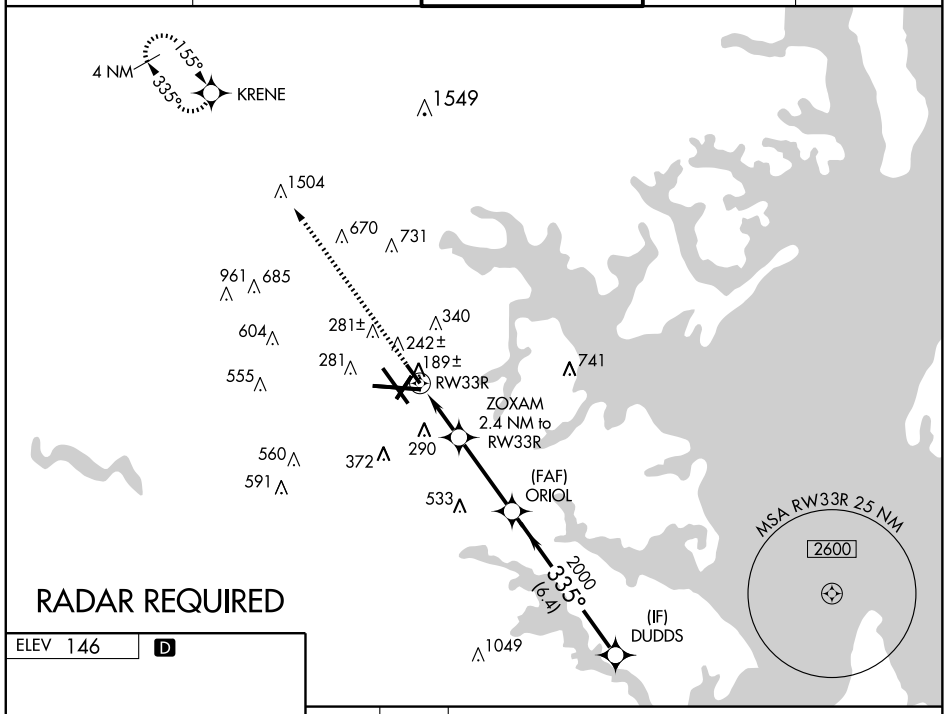
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) RNAV (GPS) RWY 33R

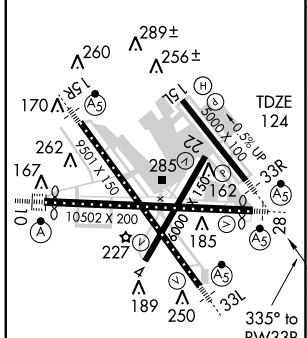
For inoperative MALSR, increase LPV visibility to RVR 5000 all Cats.
For uncompensated Baro-VNAV systems, LNAV/ VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA.

MALSR

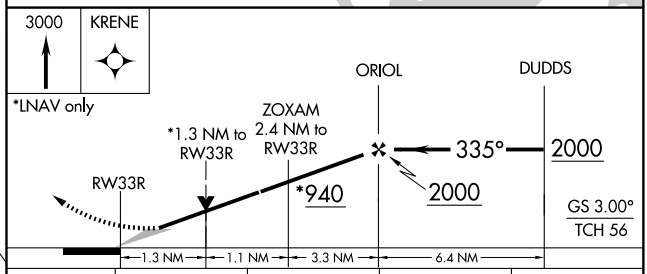
MISSED APPROACH: Climb to 3000 direct KRENE and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05





TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all Rwys



CATEGORY	A	B	C	D
LPV DA	392/24 268 (300-½)			
LNAV/ VNAV DA	518/50 394 (400-1)			
LNAV MDA	580/24 456 (500-½)		580/40 456 (500-¾)	580/50 456 (500-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	9952
CH 53707	105°	TDZE	143
W10A		Apt Elev	146

RNAV (GPS) Y RWY 10

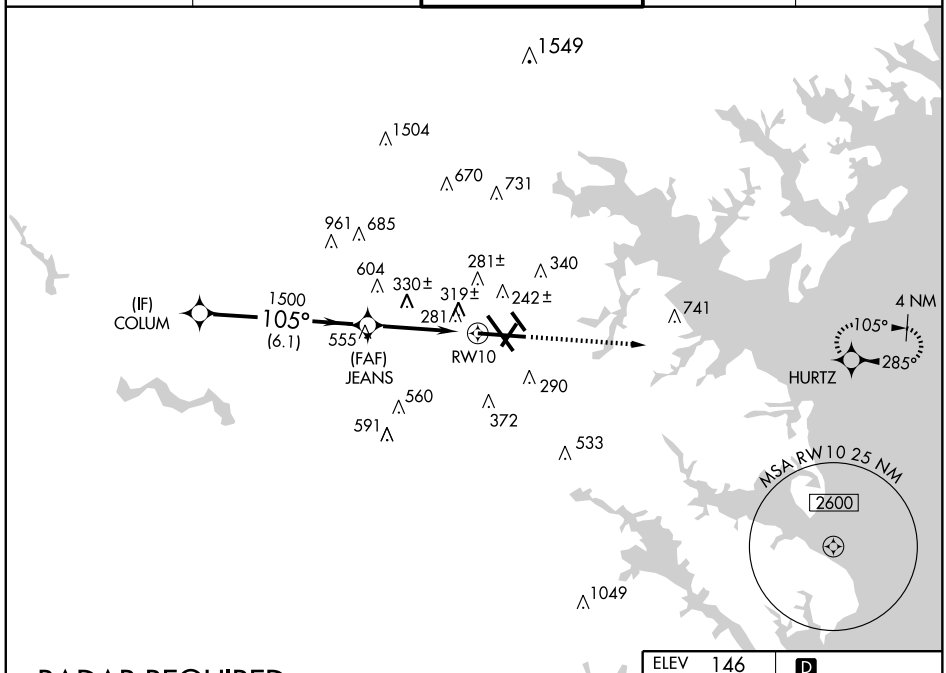
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

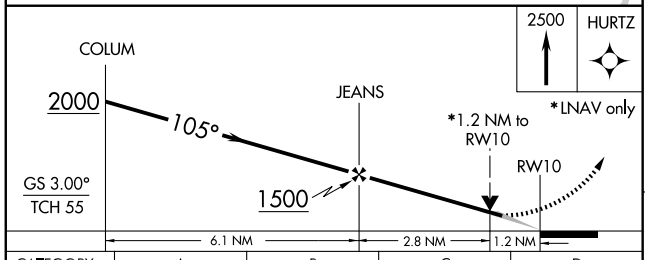
ALSF-2

MISSED APPROACH: Climb to 2500 direct HURTZ and hold.

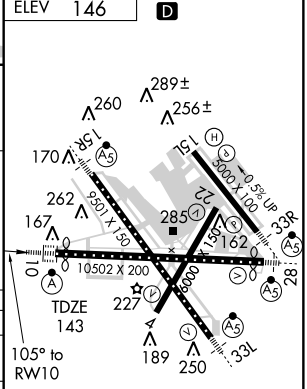
ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05



RADAR REQUIRED



CATEGORY	A	B	C	D
LPV DA	343/24 200 (200-½)			
LNAV/VNAV DA	634/60 491 (500-1¼)			
LNAV MDA	580/24 437 (500-½)		580/40 437 (500-¾)	580/50 437 (500-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	9501
CH 66007	155°	TDZE	139
W15B		Apt Elev	146

RNAV (GPS) Y RWY 15R

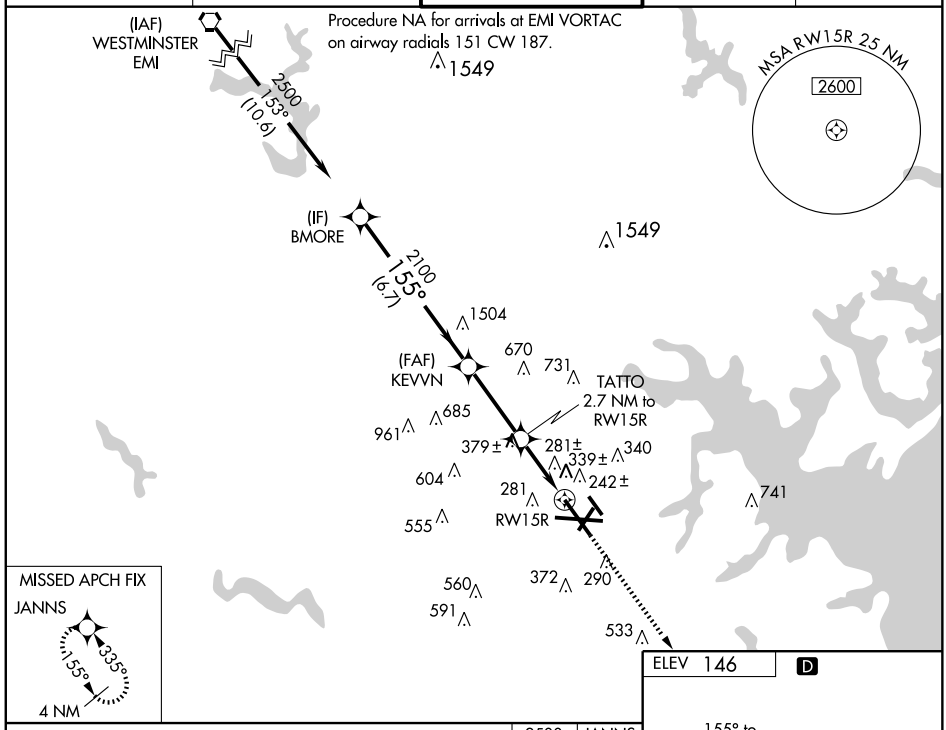
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

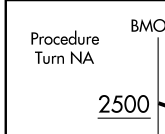
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

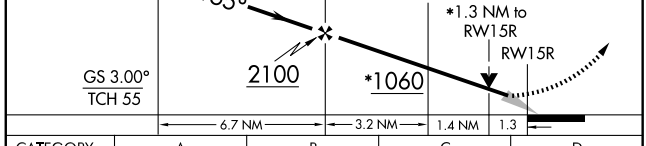
MALSR

MISSED APPROACH: Climb to 2500 direct JANNS and hold.

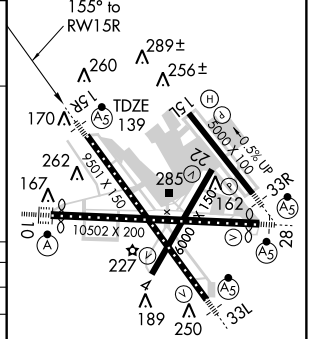
ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05







CATEGORY	A	B	C	D
LPV DA	339/24 200 (200-½)			
LNAV/VNAV DA	659/60 520 (600-1¼)			
LNAV MDA	600/24 461 (500-½)		600/40 461 (500-¾)	600/50 461 (500-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	10002
CH 48808	285°	TDZE	142
W28A		Apt Elev	146

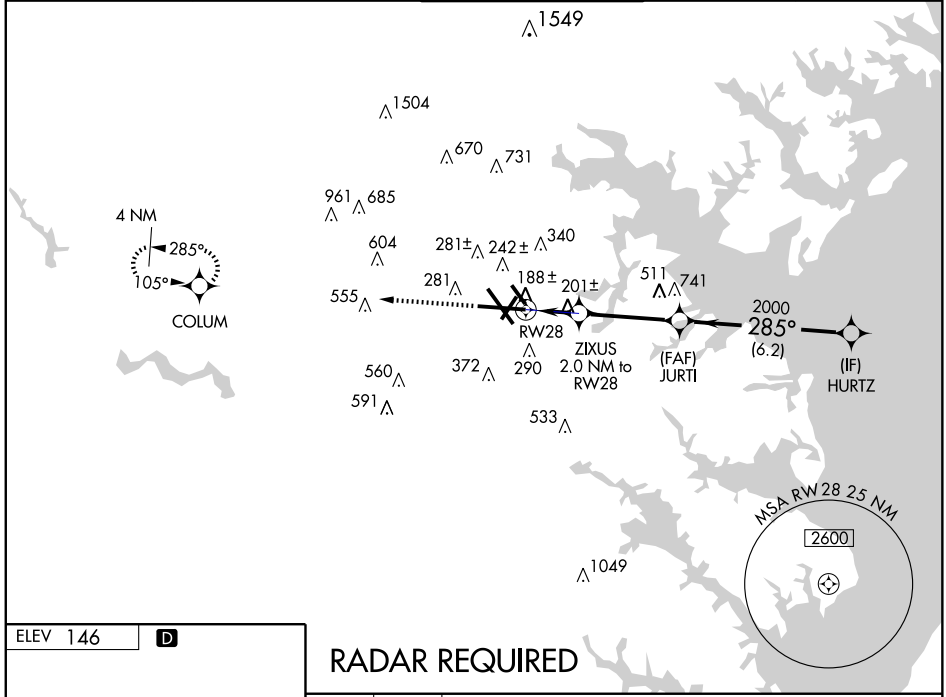
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) RNAV (GPS) Y RWY 28

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). Inoperative table does not apply to LNAV Cat D. DME/DME RNP-0.3 NA.

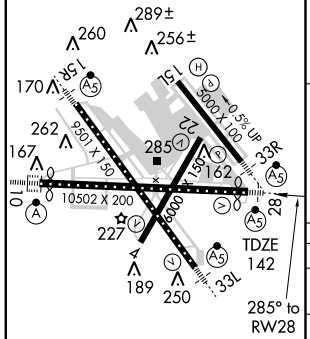
MALSR

MISSED APPROACH: Climb to 2500 direct COLUM and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

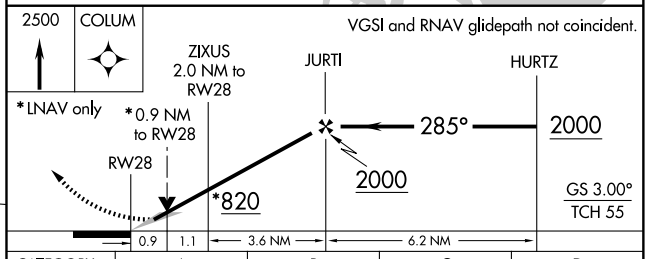


ELEV 146 D



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

RADAR REQUIRED



CATEGORY	A	B	C	D
LPV DA	342/24 200 (200-½)			
LNAV/ VNAV DA	567/50 425 (500-1)			
LNAV MDA	480/24 338 (400-½)			480/50 338 (400-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 82207 W33A	APP CRS 335°	Rwy Idg 9501 TDZE 142 Apt Elev 146

RNAV (GPS) Y RWY 33L

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

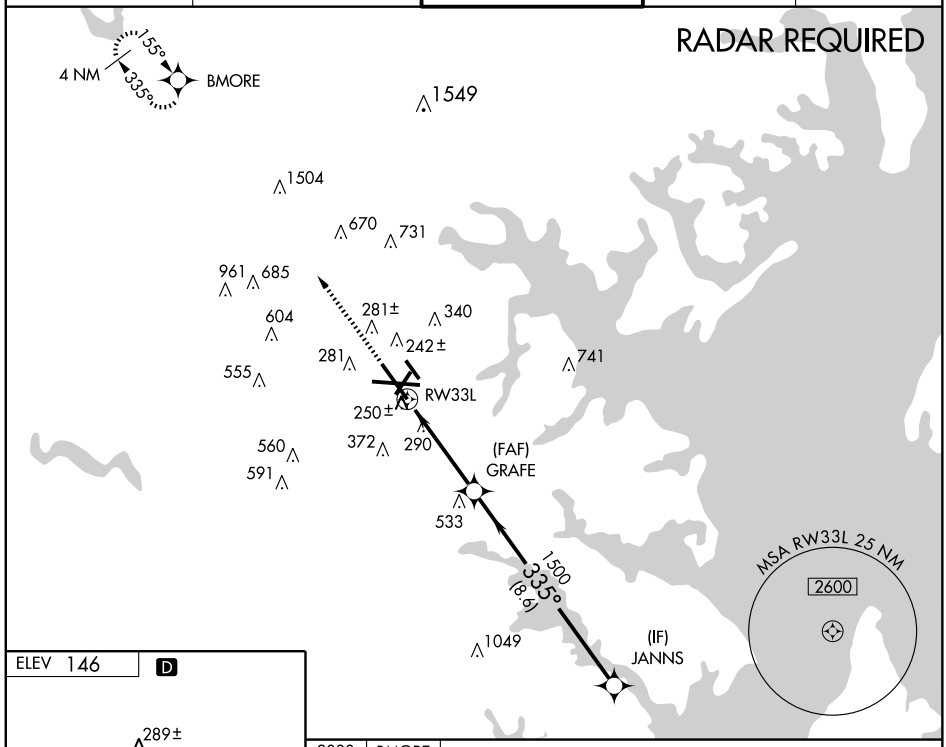
For inoperative MALSR, increase LNAV Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.

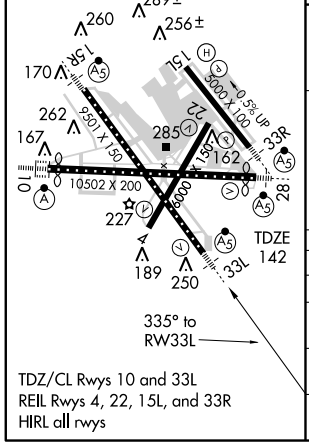
MALSR

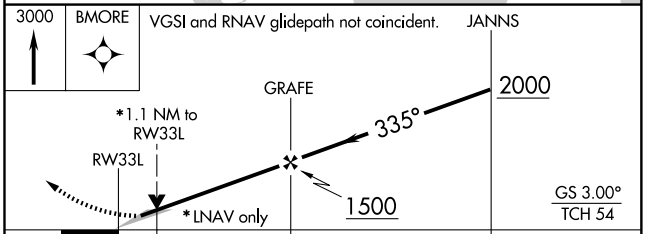
MISSED APPROACH: Climb to 3000 direct BMORE and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED







CATEGORY	A	B	C	D
LPV DA	342/24 200 (200-½)			
LNAV/ VNAV DA	510/40 368 (400-¾)			
LNAV MDA	540/24 398 (400-½)			540/50 398 (400-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9952
105°	TDZE	143
	Apt Elev	146

RNAV (RNP) Z RWY 10

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

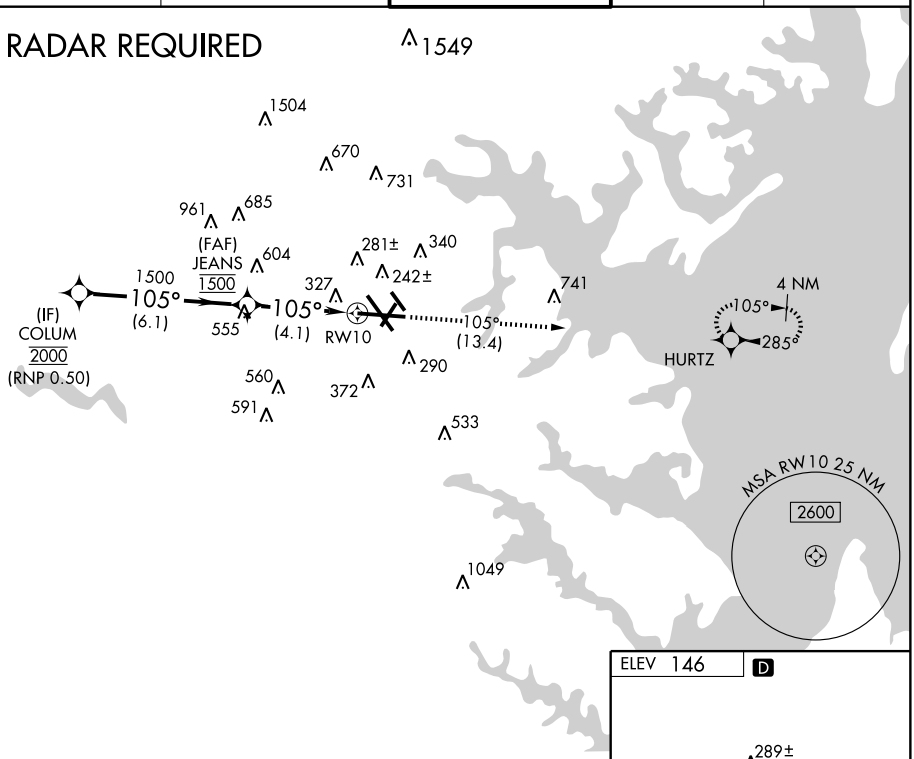
For uncompensated Baro-VNAV systems, procedure NA below -13°C (9°F) or above 48°C (118°F). GPS Required.
For inoperative ALSF-2, increase RNP 0.30 all Cats visibility to 1¾.

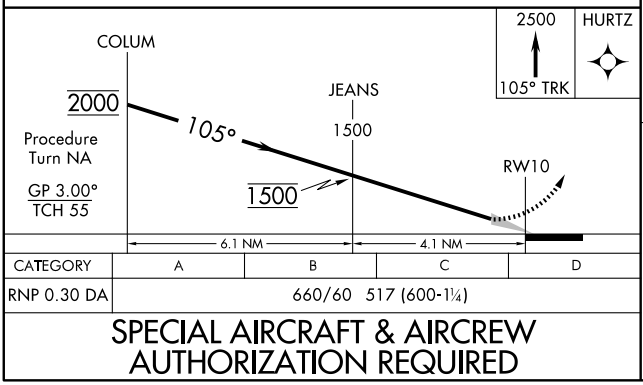
ALSF-2

MISSED APPROACH: Climb to 2500 via track 105° to HURTZ and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

RADAR REQUIRED

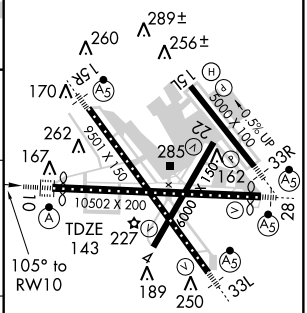




CATEGORY	A	B	C	D
RNP 0.30 DA	660/60	517 (600-1¼)		

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 146 D



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

APP CRS	Rwy Idg	9501
155°	TDZE	139
	Apt Elev	146

RNAV (RNP) Z RWY 15R

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

GPS Required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (9°F) or above 48°C (118°F). Visibility reduction by helicopters NA. For inoperative MALSR, increase RNP 0.20 all Cats visibility to 1½, and RNP 0.30 all Cats visibility to 1¾.

MALSR

MISSED APPROACH: Climb to 2500 via track 155° and JANNS and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

(IAF)
WESTMINSTER
EMI
4000
(RNP 0.50)

Procedure NA for arrivals at EMI VORTAC on airway radials 151 CW 187.

2500
153°
(10.6)

(IF)
BMORE
2500

2100
155°
(6.7)

(FAF)
KEVVN
2100

155°
(5.9)

155°
(14.3)

MSA RW15R 25 NM
2600

RW15R

MISSED APCH FIX
JANNS
155°
335°
4 NM

2500
155° TRK
JANNS

BMORE
2500
Procedure Turn NA
GP 3.00°
TCH 55
155°
KEVVN
2100
2100
RW15R
6.7 NM
5.9 NM

CATEGORY	A	B	C	D
RNP 0.20 DA	582/50 443 (500-1)			
RNP 0.30 DA	640/60 501 (500-1¼)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

ELEV 146 D

155° to RW15R

TDZE 139

9501 X 150

10502 X 200

9000 X 100

0.5% UP

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	10002
285°	TDZE	142
	Apt Elev	146

RNAV (RNP) Z RWY 28

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

For inoperative MALSR, increase RNP 0.30 all Cats visibility to RVR 6000. GPS Required. For uncompensated Baro-VNAV systems, procedure NA below -13°C (9°F) or above 48°C (118°F).

MALSR

MISSED APPROACH: Climb to 2500 via track 285° to COLUM and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

MISSED APCH FIX
4 NM
285°
105°
COLUM

1504 670 731 685 961 604 281± 340 242± 281± 137 741 555 285° (11.6) RW28 285° (5.6) 2000 285° (6.2) (IF) HURTZ 2000 (FAF) JURTI 2000 290 560 372 591 533 1049

2000 338° (11)

MSA RW28 25 NM
2600

ZUKBU

2000 to HURTZ 338° (28.9)

2000 055° (16.6)

(IAF) BILIT 11000 250 KTS (RNP 0.50)

Procedure NA for arrivals at RAVNN via V379 Westbound.

(IAF) RAVNN 6000

ELEV 146 D

289± 260 256± 170 262 167 285 162 10 227 189 250 TDZE 142 285° to RW28

9501 X 150 10502 X 200 6000 X 100 ~0.5% UP

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

2500 COLUM
285° TRK

JURTI 2000 285° 2000 HURTZ Procedure Turn NA 2000

RW28

VGSI and RNAV glidepath not coincident.

GP 3.00° TCH 55

5.6 NM 6.2 NM

CATEGORY	A	B	C	D
RNP 0.30 DA	493/40 351 (400-¾)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	9501
335°	TDZE	142
	Apt Elev	146

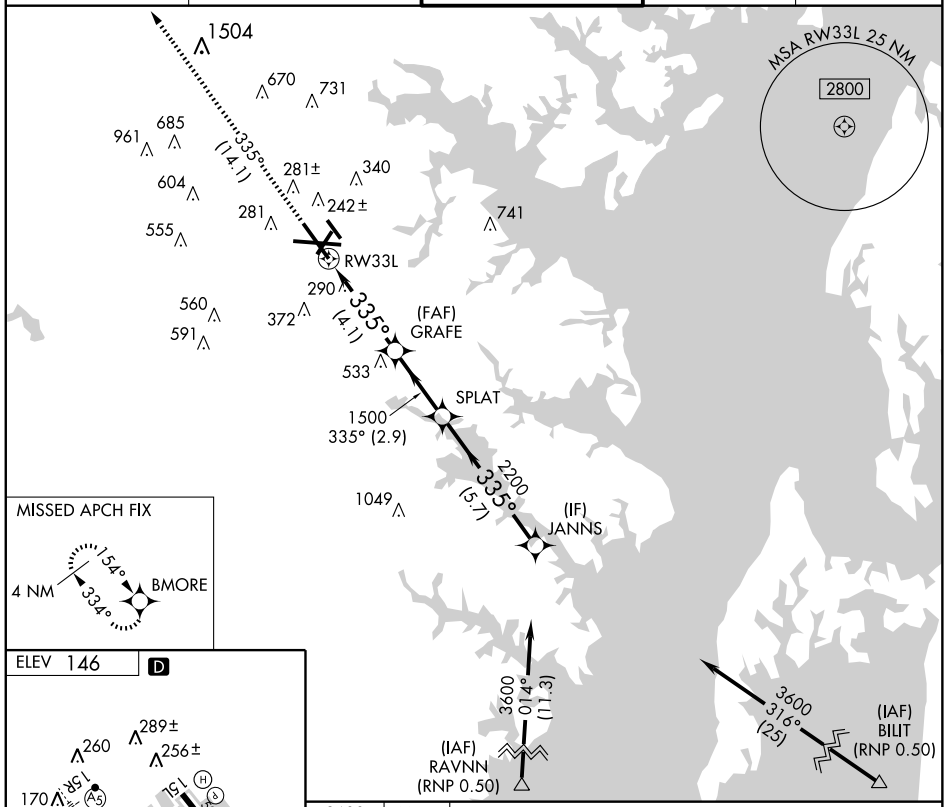
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) RNAV (RNP) Z RWY 33L

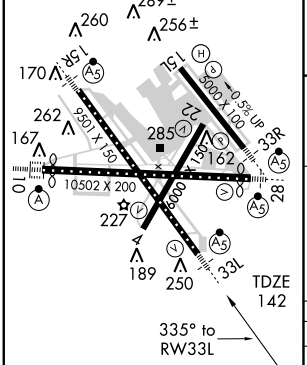
GPS Required. For uncompensated Baro-VNAV systems, procedure NA below -12°C (10°F) or above 48°C (118°F). For inoperative MALSR, increase RNP 0.30 visibility to RVR 6000.

MALSR

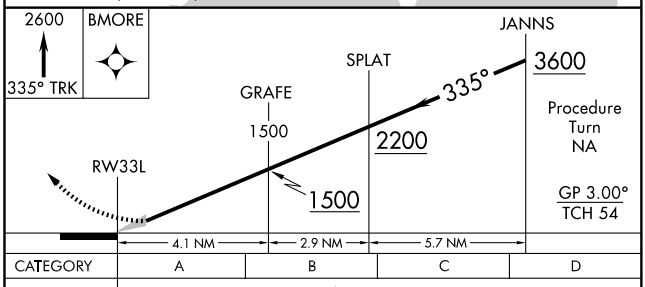
MISSED APPROACH: Climb to 2600 via track 335° to BMORE and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05





TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys



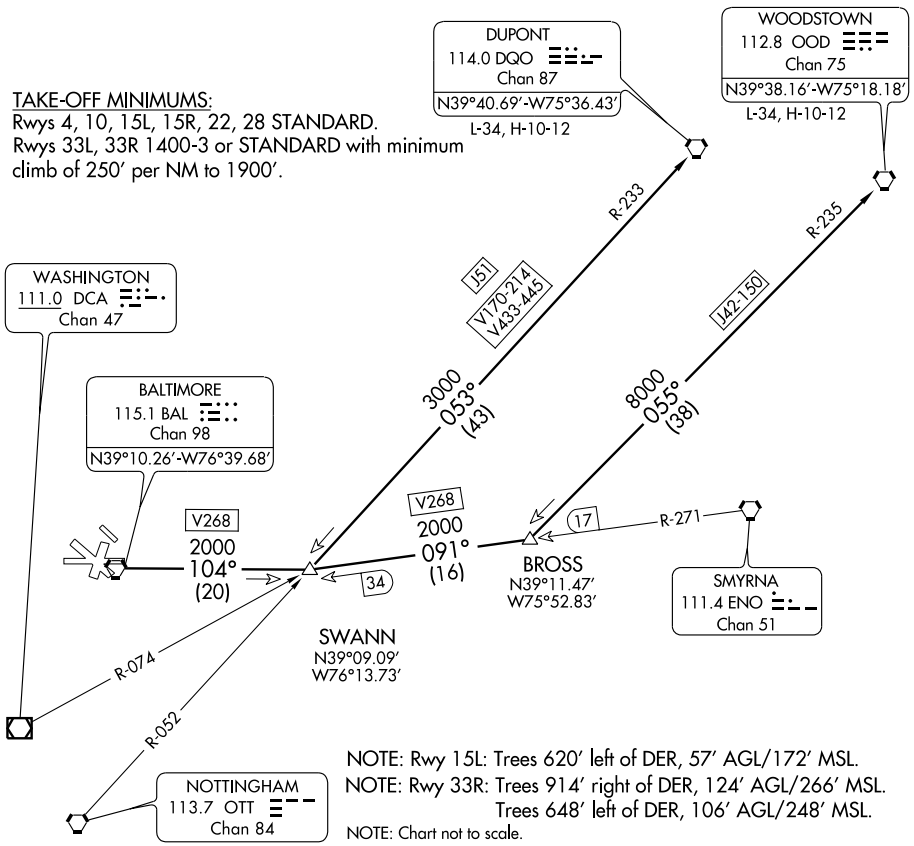
CATEGORY	A	B	C	D
RNP 0.30 DA	476/40 334 (400-¾)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

NE-3, 03 JUN 2010 to 01 JUL 2010

ATIS 115.1 127.8
CLNC DEL 118.05
GND CON 121.9
BALTIMORE TOWER
119.4 257.8

TAKE-OFF MINIMUMS:
Rwys 4, 10, 15L, 15R, 22, 28 STANDARD.
Rwys 33L, 33R 1400-3 or STANDARD with minimum climb of 250′ per NM to 1900′.



NOTE: Rwy 15L: Trees 620′ left of DER, 57′ AGL/172′ MSL.
NOTE: Rwy 33R: Trees 914′ right of DER, 124′ AGL/266′ MSL.
Trees 648′ left of DER, 106′ AGL/248′ MSL.
NOTE: Chart not to scale.

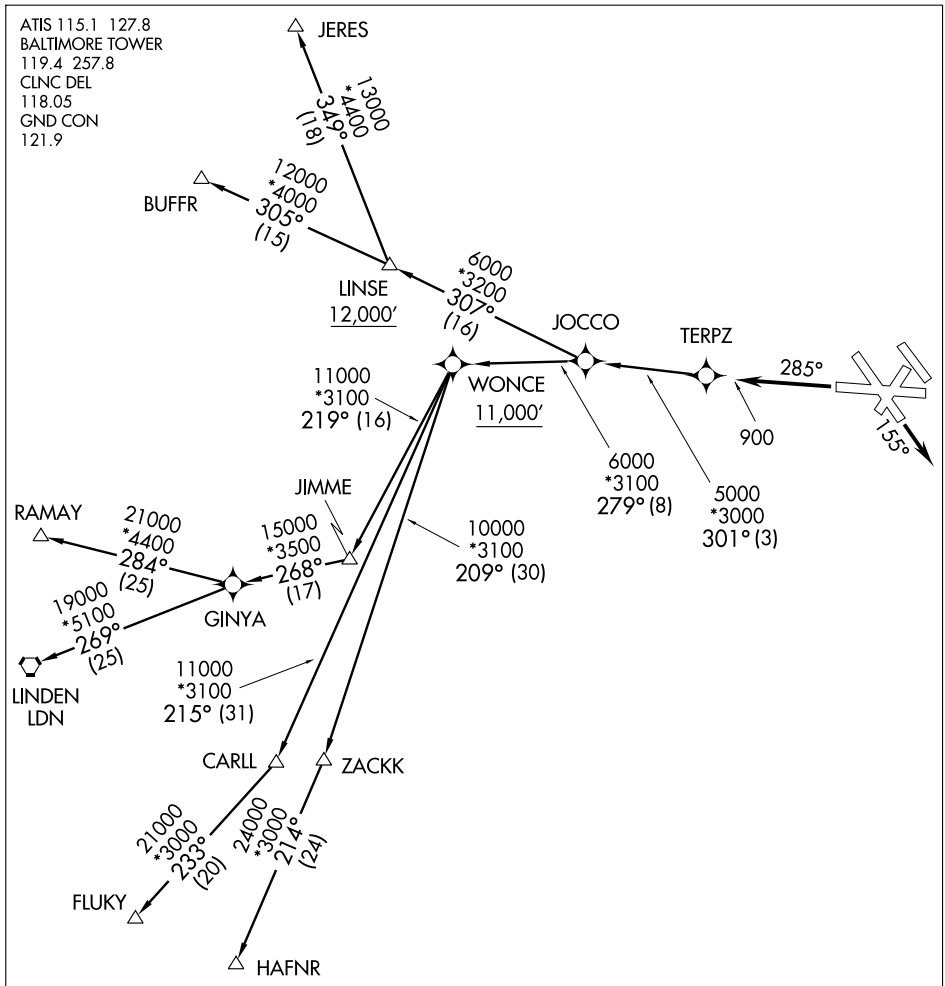
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 28:
JETS: Fly runway heading until 3 DME, then turn left heading 150° Thence....
PROPS: Fly runway heading. Thence....
TAKE-OFF ALL OTHER RUNWAYS: Fly runway heading. Thence....
....For vectors to transition or assigned route, expect clearance to filed altitude ten minutes after departure.
DUPONT TRANSITION (SWANN3.DQO): From over BAL VORTAC via BAL R-104 to SWANN INT, then via DQO VORTAC R-233 to DQO VORTAC.
WOODSTOWN TRANSITION (SWANN3.OOD): From over BAL VORTAC via BAL R-104 to SWANN INT, then via ENO VORTAC R-271 to BROSS INT, then via OOD VORTAC R-235 to OOD VORTAC.

(TERPZ1.TERPZ) 07298 SL-804 (FAA)

BALTIMORE/
WASHINGTON INTL THURGOOD MARSHALL (BWI)
BALTIMORE, MARYLAND

TERPZ ONE DEPARTURE (RNAV)



TAKE-OFF OBSTACLES:
Rwy 28: Tree 1392′ from DER, 736′ left of centerline, 77′ AGL/176′ MSL.
Rwy 15R: Multiple Trees beginning 1144′ from DER, 740′ right of centerline, up to 53′ AGL/172′ MSL.

NOTE: DME/DME/IRU or GPS Required.
NOTE: RNAV 1.

NOTE: RADAR required.
NOTE: Maintain 250 Kias to TERPZ.

TAKE-OFF MINIMUMS:
Rwys 4, 10, 15L, 28, 33L, 33R: NA - Air Traffic.
Rwys 15R/28: JERES, BUFFR TRANSITIONS:
STANDARD with ATC climb of 500′ per NM to 12,000′.
Rwys 15R/28: RAMAY, LINDEN, FLUKY, HAFNR TRANSITIONS:
STANDARD with ATC climb of 500′ per NM to 11,000′.

NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

NE-3, 03 JUN 2010 to 01 JUL 2010

TERPZ ONE DEPARTURE (RNAV)

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15R: Fly heading 155°, or as assigned, for radar vectors to TERPZ, Thence. . . .
TAKE-OFF RUNWAY 28: Fly heading 285° to 900, for radar vectors to TERPZ, Thence. . . .

. . . . expect further clearance to filed altitude within 10 minutes after departure.

BUFFR TRANSITION (TERPZ1.BUFFR)
FLUKY TRANSITION (TERPZ1.FLUKY)
HAFNR TRANSITION (TERPZ1.HAFNR)
JERES TRANSITION (TERPZ1.JERES)
LINDEN TRANSITION (TERPZ1.LDN)
RAMAY TRANSITION (TERPZ1.RAMAY)

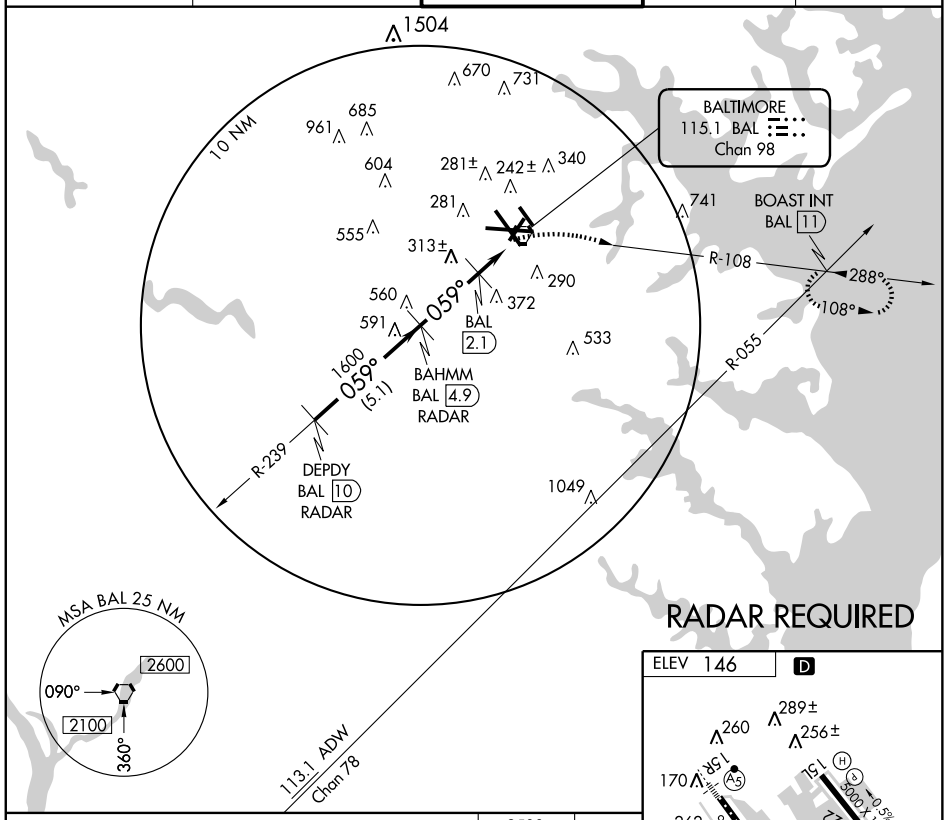
VORTAC BAL 115.1 Chan 98	APP CRS 059°	Rwy ldg 6000 TDZE 146 Apt Elev 146

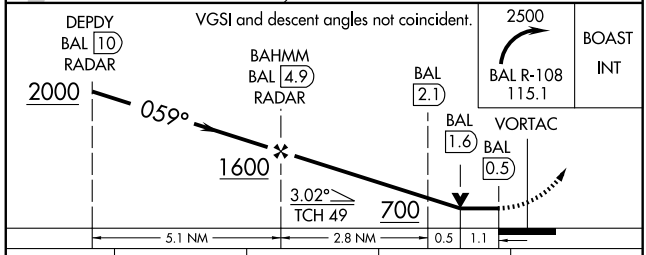
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

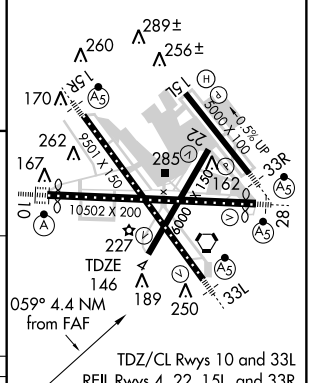
VOR/DME RWY 4

MISSED APPROACH: Climbing right turn to 2500 via BAL R-108 to BOAST Int/BAL 11 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05







CATEGORY	A	B	C	D
S-4	540-1 394 (400-1)			540-1¼ 394 (400-1¼)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

Knots	60	90	120	150	180
Min:Sec					

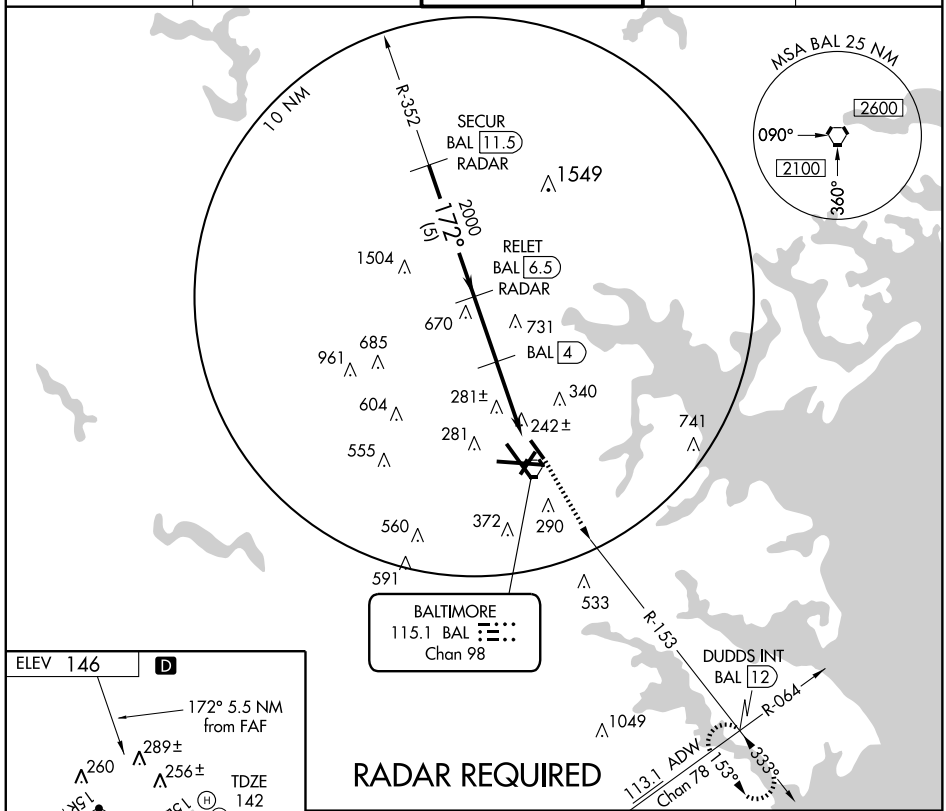
NE-3. 03 JUN 2010 to 01 JUL 2010

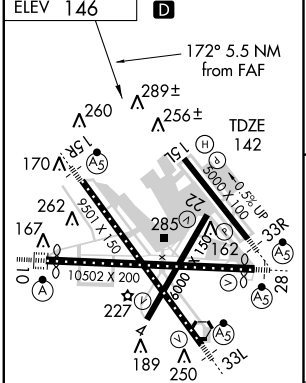
VORTAC BAL 115.1 Chan 98	APP CRS 172°	Rwy ldg 5000 TDZE 142 Apt Elev 146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) VOR/DME RWY 15L

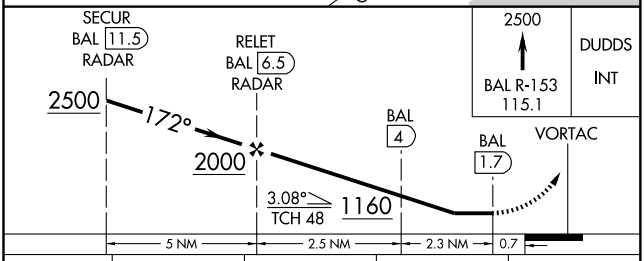
MISSED APPROACH: Climb to 2500 via BAL R-153 to DUDDS Int/BAL 12 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05





Knots	60	90	120	150	180
Min:Sec					



CATEGORY	A	B	C	D
S-15L	600/50 458 (500-1)		600/60 458 (500-1¼)	600-1½ 458 (500-1½)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

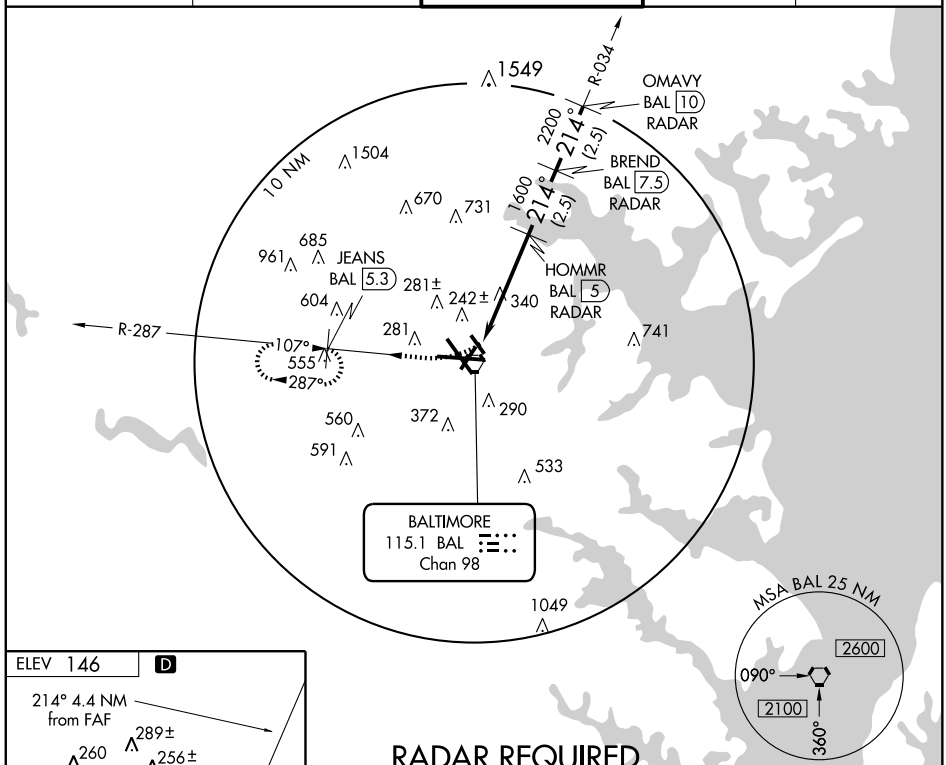
VORTAC BAL 115.1 Chan 98	APP CRS 214°	Rwy ldg 6000 TDZE 143 Apt Elev 146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

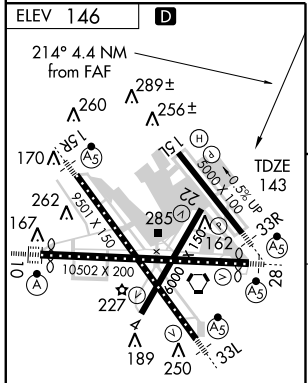
VOR/DME RWY 22

MISSED APPROACH: Climbing right turn to 2000 via BAL R-287 to JEANS/BAL 5.3 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

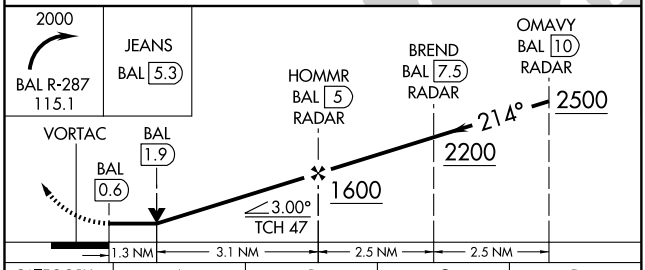


RADAR REQUIRED



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

Knots	60	90	120	150	180
Min:Sec					



CATEGORY	A	B	C	D
S-22	600-1 457 (500-1)		600-1¼ 457 (500-1¼)	600-1½ 457 (500-1½)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

VORTAC BAL 115.1 Chan 98	APP CRS 349°	Rwy ldg 9501 TDZE 143 Apt Elev 146

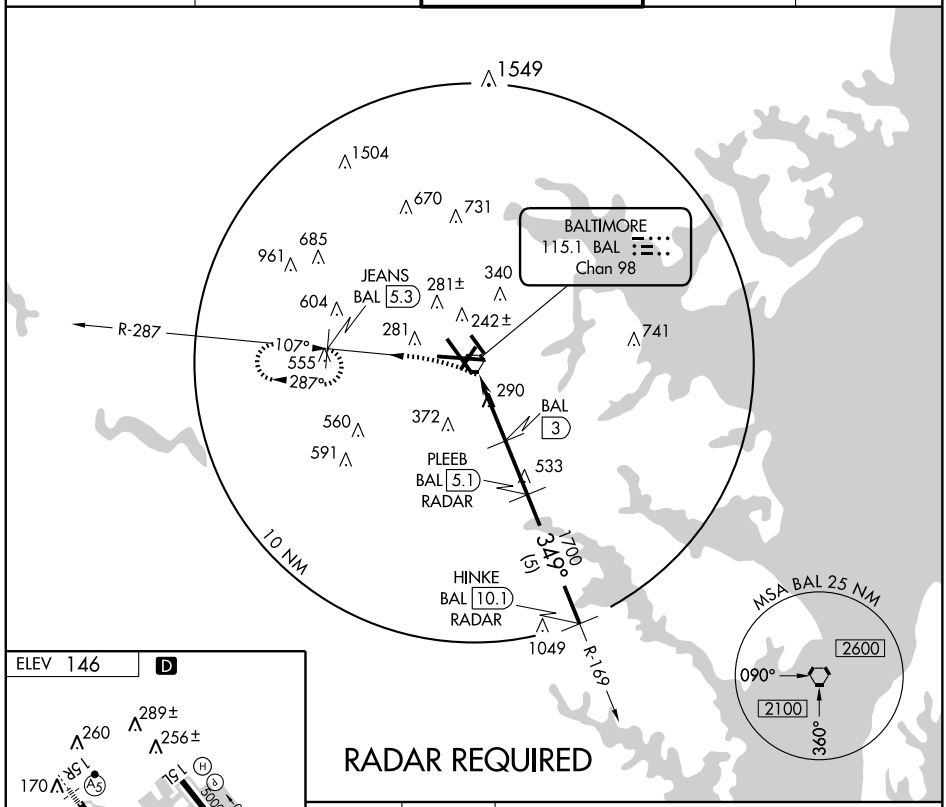
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI) VOR/DME RWY 33L

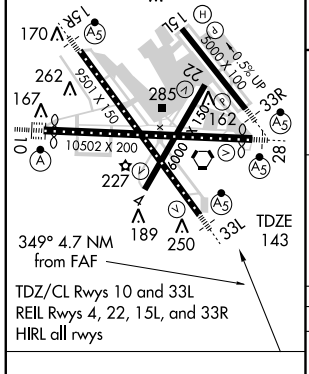
For inoperative MALSR, increase S-33L Cat D visibility to RVR 6000.

MALSR

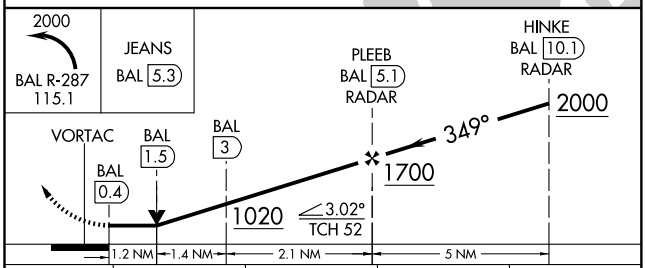
MISSED APPROACH: Climbing left turn to 2000 via BAL R-287 to JEANS/BAL 5.3 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05





Knots	60	90	120	150	180
Min:Sec					



CATEGORY	A	B	C	D
S-33L	560/24 417 (500-½)		560/40 417 (500-¾)	560/50 417 (500-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC BAL 115.1 Chan 98	APP CRS 107°	Rwy ldg 9952 TDZE 143 Apt Elev 146

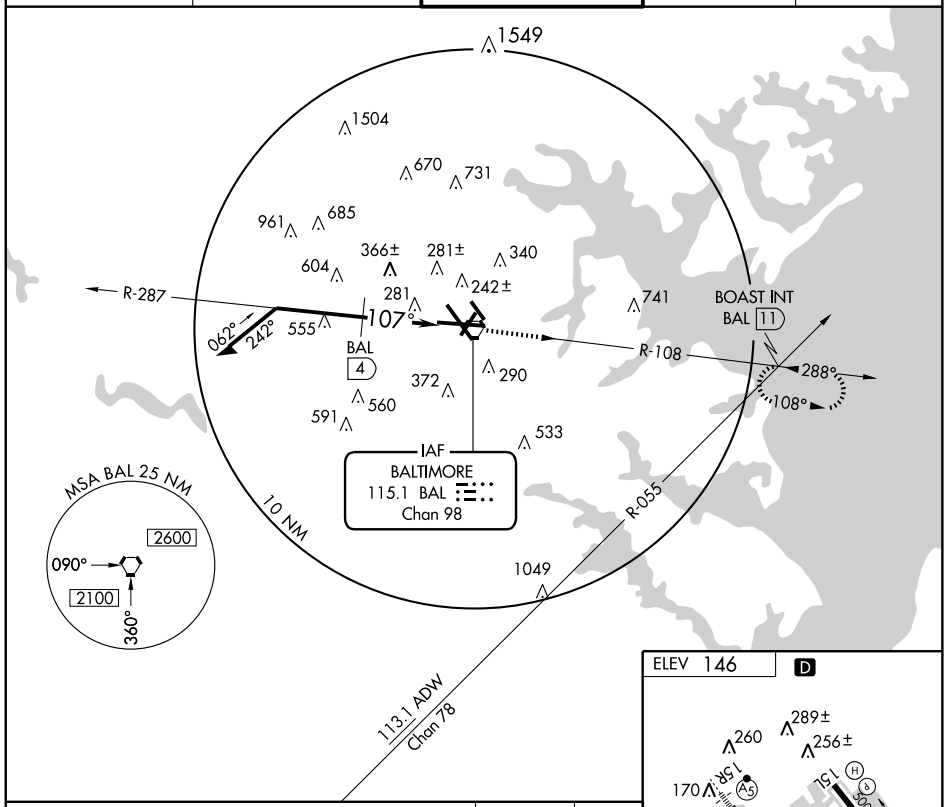
VOR RWY 10

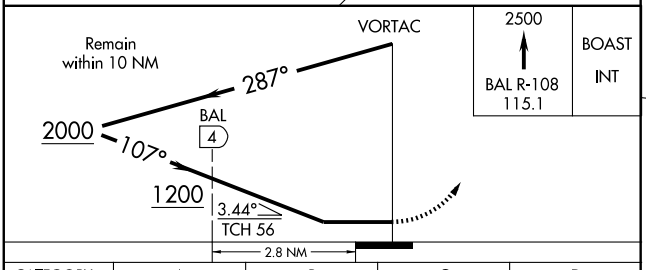
BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

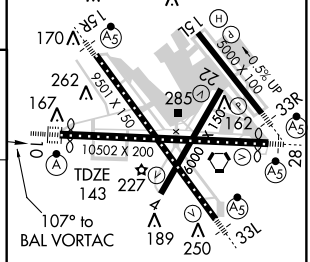
ALSF-2

MISSED APPROACH: Climb to 2500 via BAL R-108 to BOAST Int and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05







CATEGORY	A	B	C	D
S-10	1320/40 1177 (1200-¾)	1320/50 1177 (1200-1)	1320-2½ 1177 (1200-2½)	
CIRCLING	1320-1¼ 1174 (1200-1¼)	1320-1½ 1174 (1200-1½)	1320-3 1174 (1200-3)	

TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC BAL 115.1 Chan 98	APP CRS 279°	Rwy ldg 10002 TDZE 143 Apt Elev 146

BALTIMORE/ WASHINGTON INTL THURGOOD MARSHALL (BWI)

VOR RWY 28

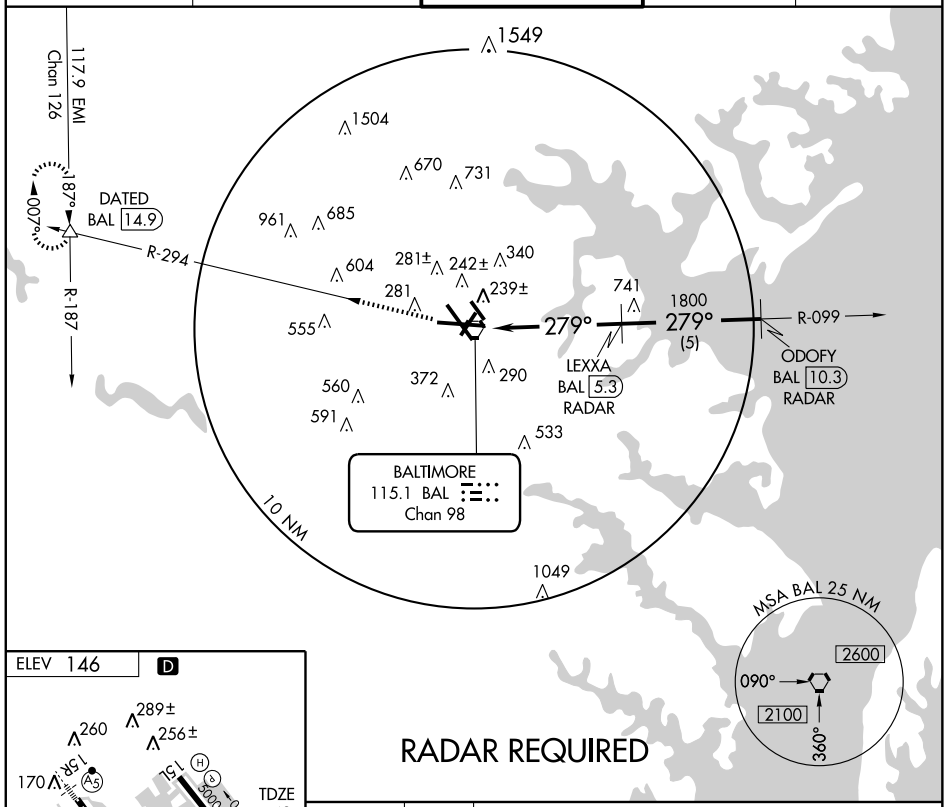
For inoperative MALSR increase S-28 Cat D visibility to RVR 6000.

NA

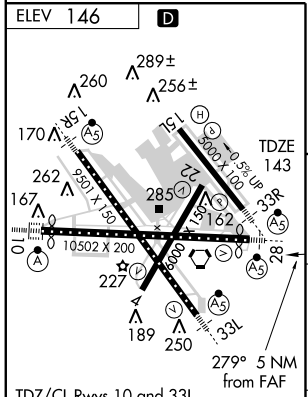
MALSR

MISSED APPROACH: Climb to 2500 via BAL R-294 to DATED Int/BAL 14.90 DME and hold.

ATIS	POTOMAC APP CON	BALTIMORE TOWER	GND CON	CLNC DEL
115.1 127.8	119.7 290.475	119.4 257.8	121.9	118.05

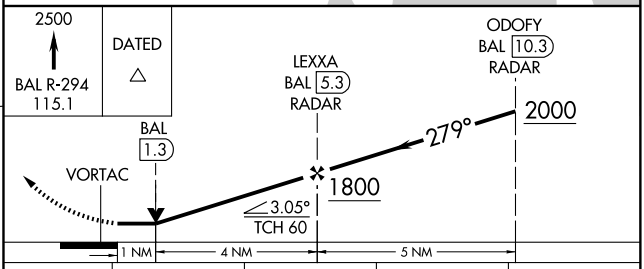


RADAR REQUIRED



TDZ/CL Rwys 10 and 33L
REIL Rwys 4, 22, 15L, and 33R
HIRL all rwys

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

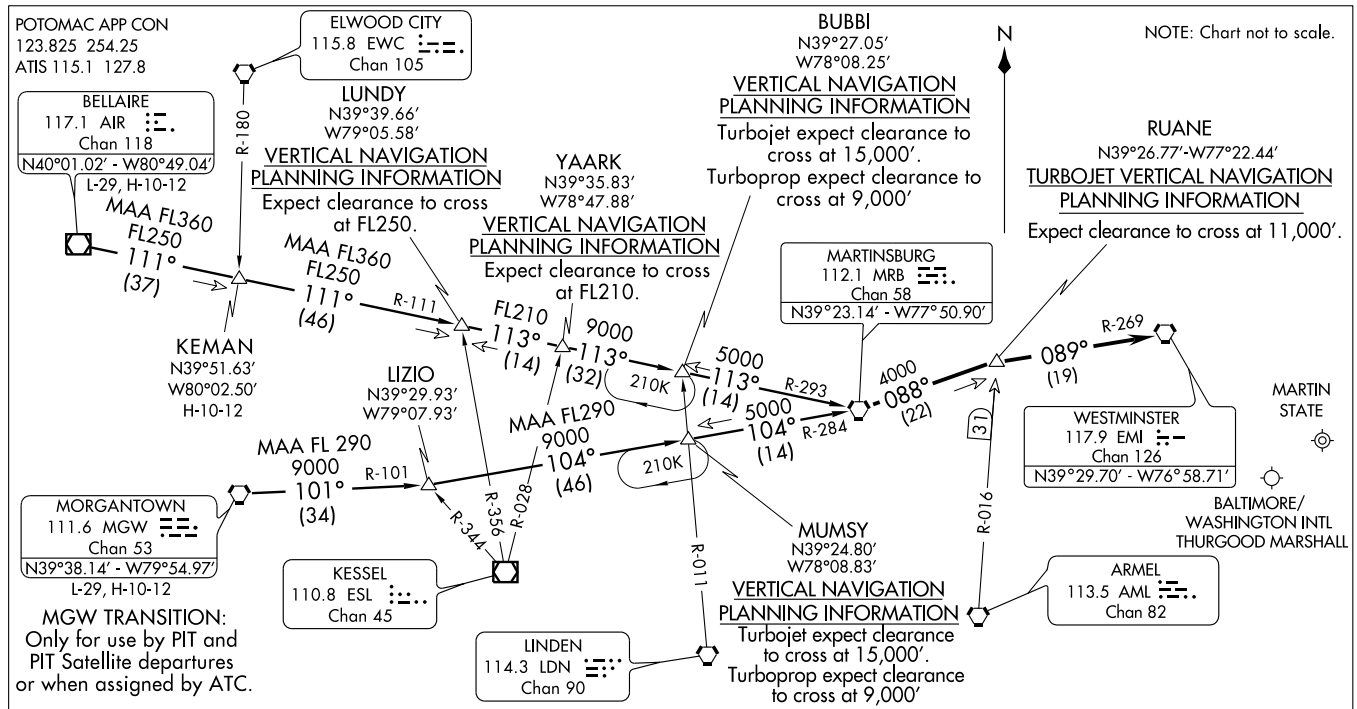


CATEGORY	A	B	C	D
S-28	500/24 357 (400-½)			500/50 357 (400-1)
CIRCLING	640-1 494 (500-1)		640-1½ 494 (500-1½)	740-2 594 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WESTMINSTER FIVE ARRIVAL (EMI.EMI5)

07298 ST-804 (FAA)



ARRIVAL ROUTE DESCRIPTION

BELLAIRE TRANSITION (AIR.EMI5): From over AIR VOR/DME via AIR R-111 to LUNDY INT, then via MRB VORTAC R-293 to MRB. Thence . . .
KEMAN TRANSITION (KEMAN.EMI5): From over KEMAN INT via AIR R-111 to LUNDY INT, then via MRB VORTAC R-293 to MRB. Thence . . .
MORGANTOWN TRANSITION (MGW.EMI5): From over MGW VORTAC via the MGW R-101 to LIZIO INT, then via MRB VORTAC R-284 to MRB. Thence . . .

. . . From MRB via MRB R-088 to RUANE INT, then via EMI VORTAC R-269 to EMI. Expect vectors to final approach course after EMI.

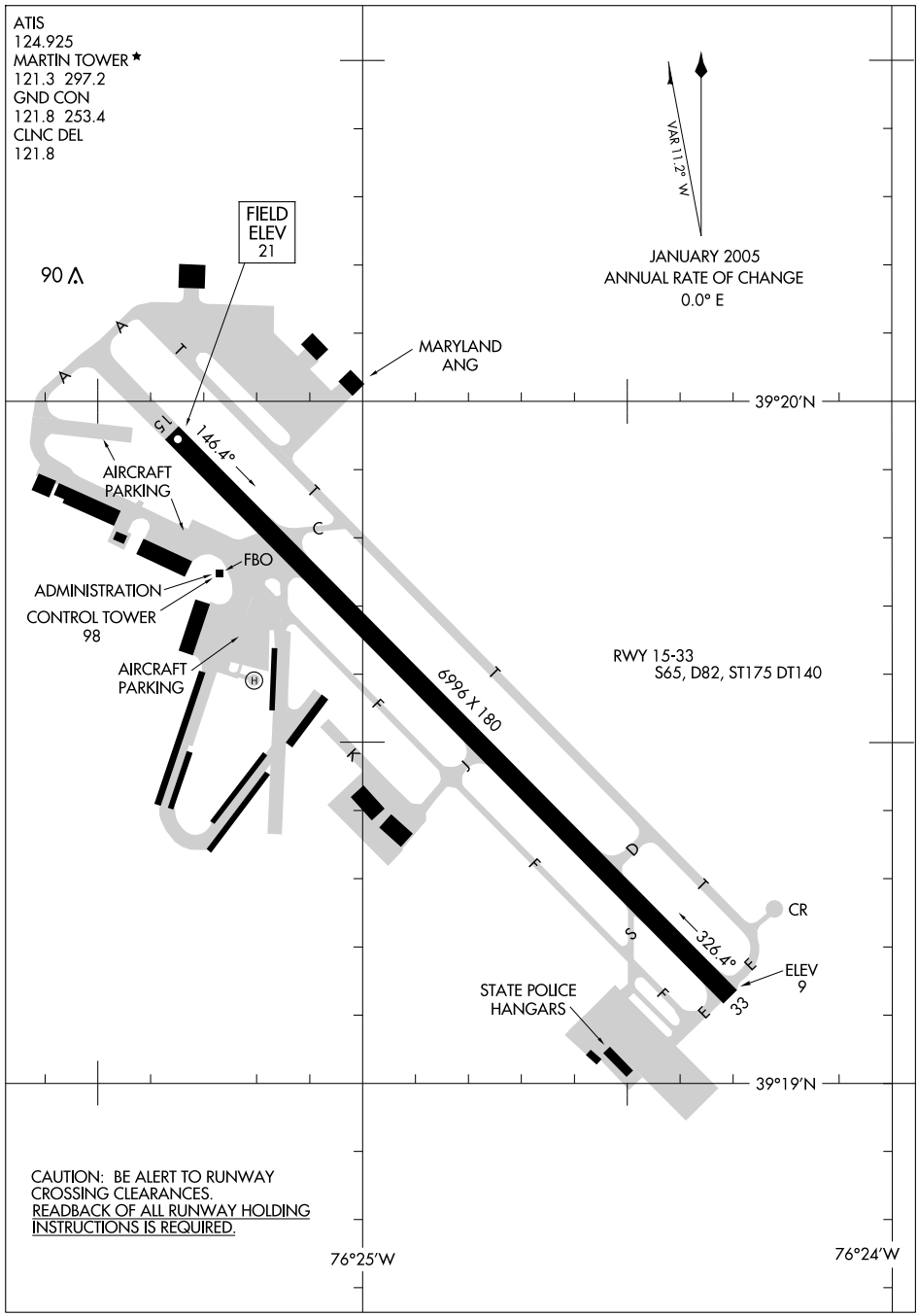
BALTIMORE, MARYLAND

09295

AIRPORT DIAGRAM

AL-5222 (FAA)

BALTIMORE/MARTIN STATE (MTN)
BALTIMORE, MARYLAND



NE-3, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-MTN	APP CRS	Rwy Idg	6996
110.7	326°	TDZE	15
Chan 44		Apt Elev	22

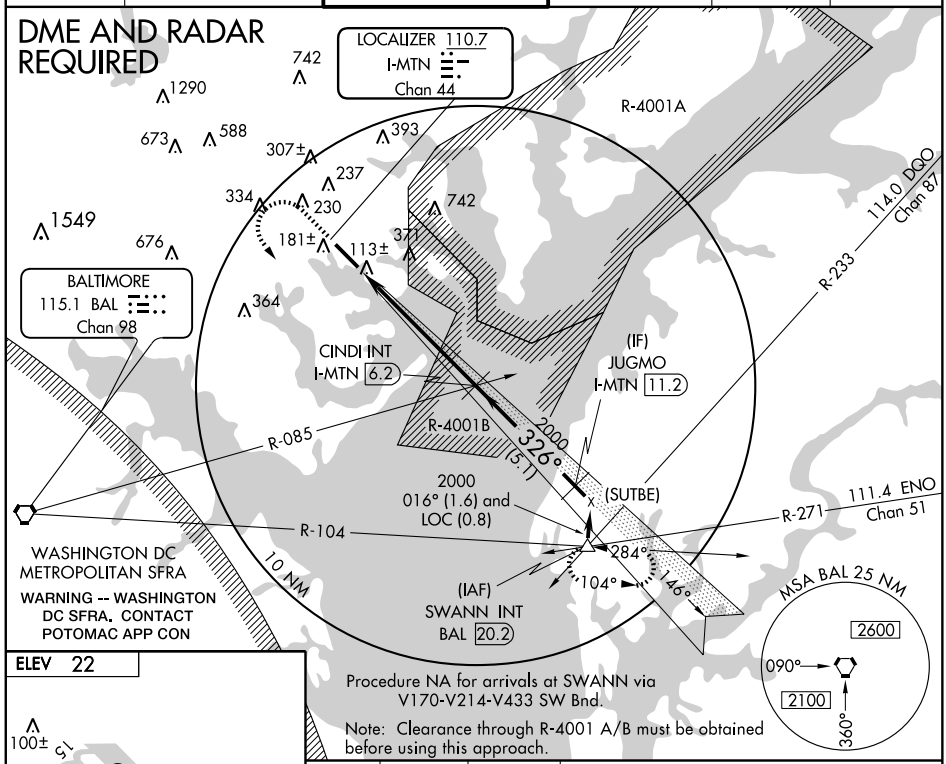
ILS or LOC RWY 33

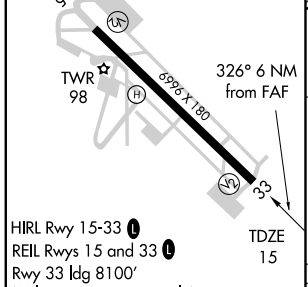
BALTIMORE / MARTIN STATE (MTN)

If local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase all DAs/MDAs 60 feet. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 600 then climbing left turn 2000 via heading 146° and BAL VORTAC R-104 to SWANN INT/BAL 20.2 DME and hold.

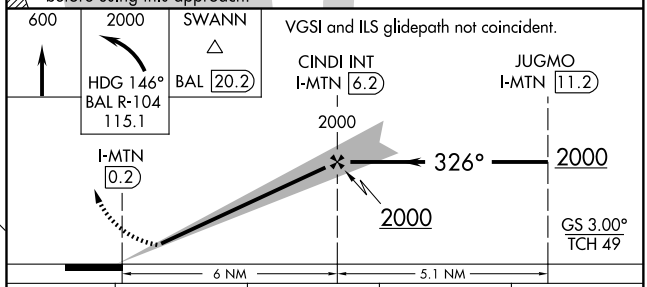
ATIS	POTOMAC APP CON	MARTIN TOWER ★	GND CON	CLNC DEL	UNICOM
124.925	119.0 282.275	121.3 (CTAF) L 297.2	121.8 253.4	121.8	122.95





HIRL Rwy 15-33 L
REIL Rwys 15 and 33 L
Rwy 33 ldg 8100′
(Military Operations Only)
Rwy 15 take-off 8100′
(Military Operations Only)

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00



CATEGORY	A	B	C	D
S-ILS 33	290-1 275 (300-1)			
S-LOC 33	380-1 365 (400-1)			380-1¼ 365 (400-1¼)
CIRCLING	520-1 498 (500-1)		520-1½ 498 (500-1½)	680-2 658 (700-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC I-BQG	APP CRS	Rwy Idg	6996
110.7	144°	TDZE	22
Chan 44		Apt Elev	22

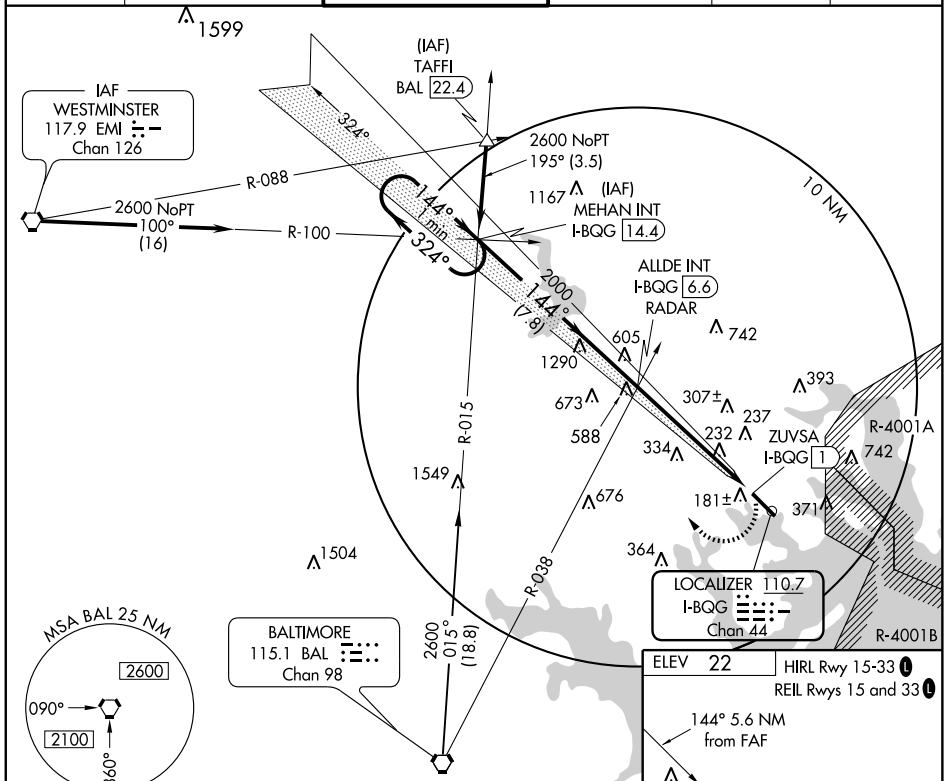
LOC RWY 15

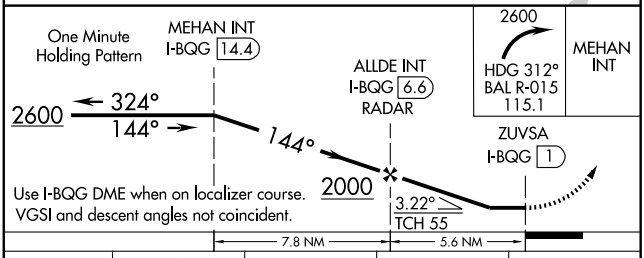
BALTIMORE / MARTIN STATE (MTN)

If local altimeter setting not received, use Baltimore/Washington Intl Thurgood Marshall altimeter setting and increase all MDAs 60 feet.

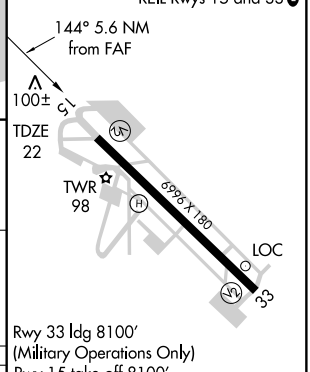
MISSED APPROACH: Climbing right turn to 2600 via heading 312° and BAL R-015 to MEHAN Int/I-BQG 14.4 DME and hold.

ATIS	POTOMAC APP CON	MARTIN TOWER ★	GND CON	CLNC DEL	UNICOM
124.925	119.0 282.275	121.3 (CTAF) L 297.2	121.8 253.4	121.8	122.95





CATEGORY	A	B	C	D
S-15	480-1	458 (500-1)	480-1¼ 458 (500-1¼)	480-1½ 458 (500-1½)
CIRCLING	520-1	498 (500-1)	520-1½ 498 (500-1½)	680-2 658 (700-2)

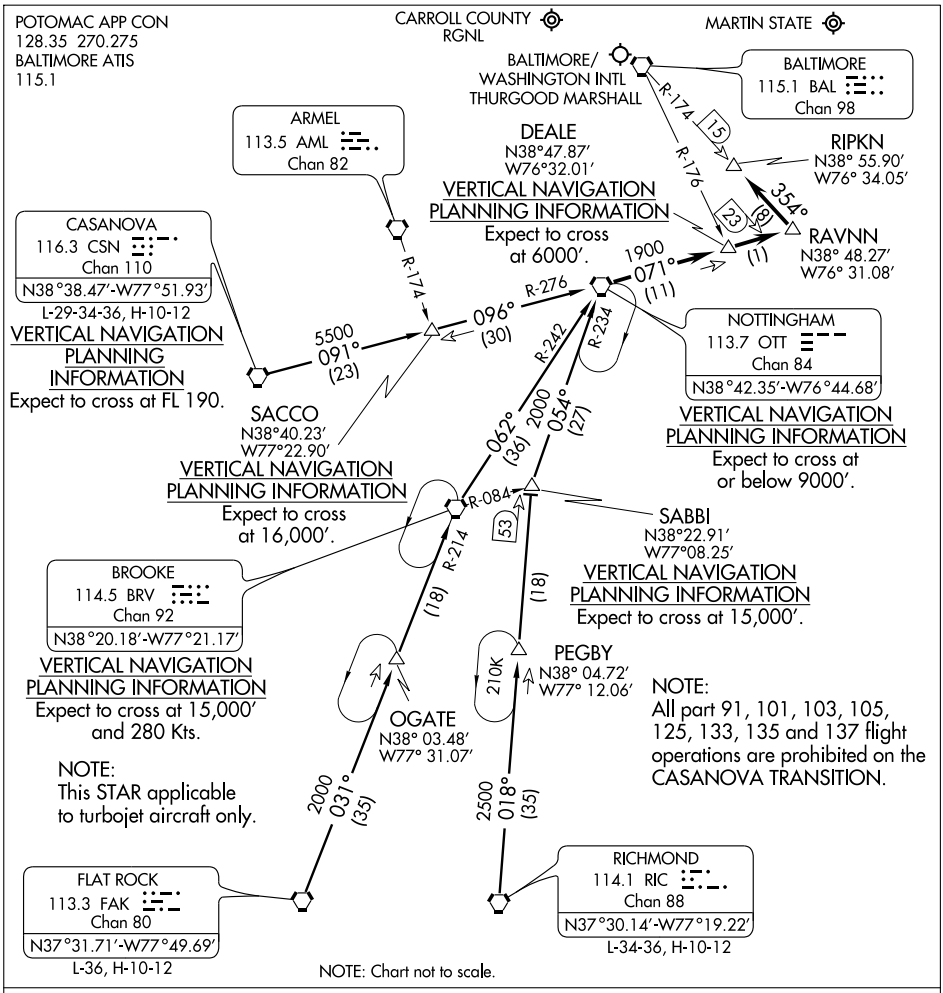


FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

NE-3, 03 JUN 2010 to 01 JUL 2010

NOTTINGHAM SIX ARRIVAL

BALTIMORE, MARYLAND



ARRIVAL ROUTE DESCRIPTION

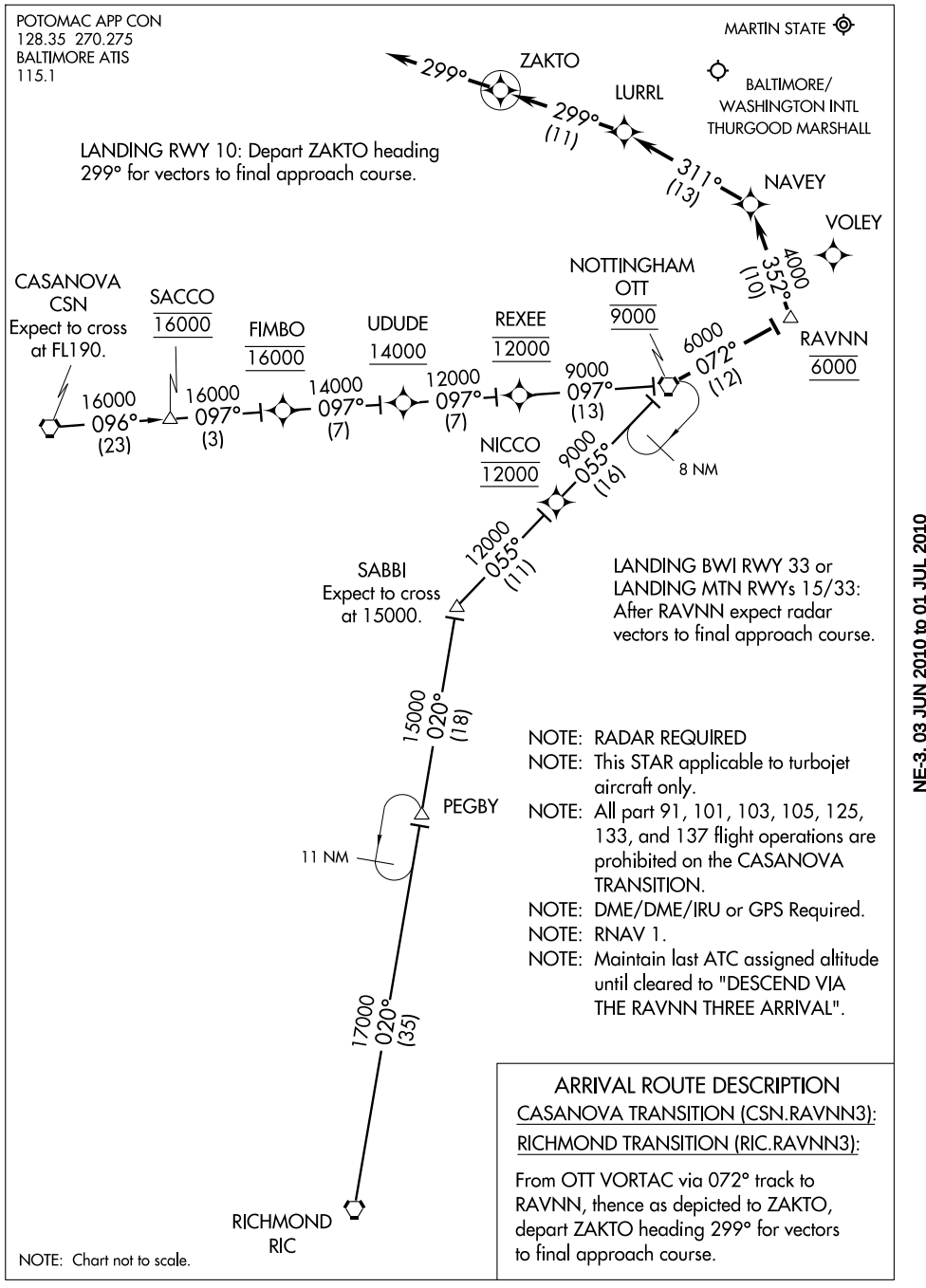
CASANOVA TRANSITION (CSN.OTT6): From over CSN VORTAC via CSN R-091 and OTT R-276 to OTT VORTAC. Thence

FLAT ROCK TRANSITION (FAK.OTT6): From over FAK VORTAC via FAK R-031 and BRV R-214 to BRV VORTAC, then via OTT R-242 to OTT VORTAC. Thence

RICHMOND TRANSITION (RIC.OTT6): From over RIC VORTAC via RIC R-018 to SABBI INT, then via OTT R-234 to OTT VORTAC. Thence From over OTT VORTAC via OTT R-071 to RAVNN INT, then via BAL R-174 to RIPKN INT. Expect radar vectors to final approach course after passing RIPKN INT.

RAVNN THREE ARRIVAL (RNAV)

BALTIMORE, MARYLAND



ARRIVAL ROUTE DESCRIPTION

CASANOVA TRANSITION (CSN.RAVNN3):

RICHMOND TRANSITION (RIC.RAVNN3):

From OTT VORTAC via 072° track to RAVNN, thence as depicted to ZAKTO, depart ZAKTO heading 299° for vectors to final approach course.

NOTE: Chart not to scale.

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	6996
146°	TDZE	22
	Apt Elev	22

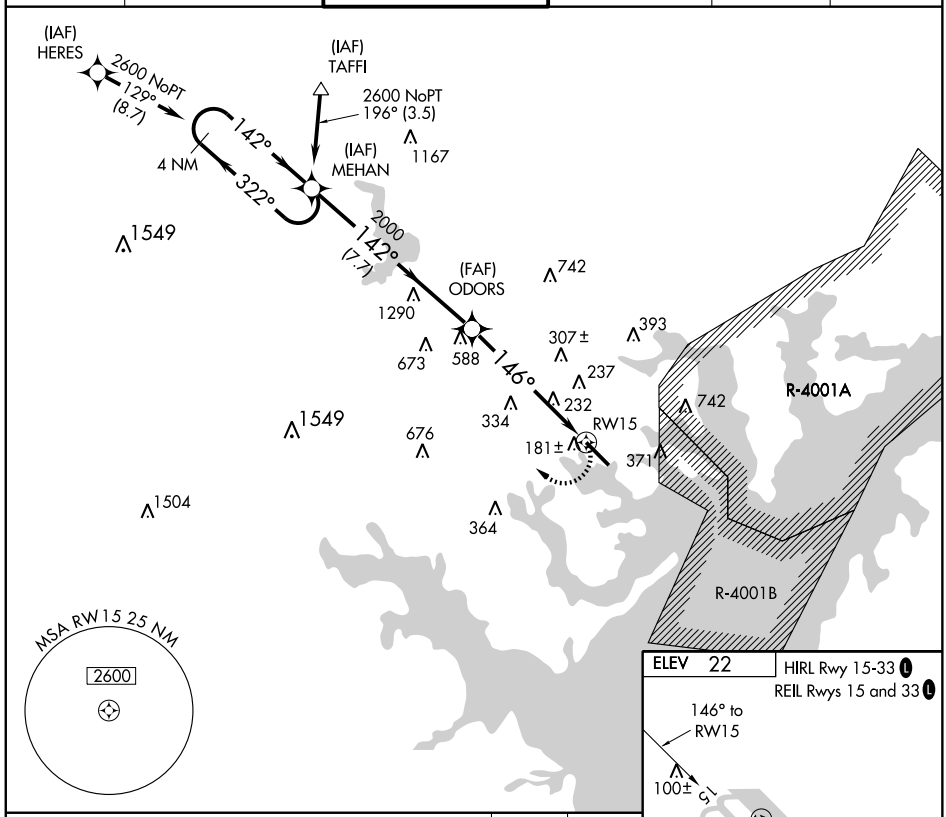
RNAV (GPS) RWY 15

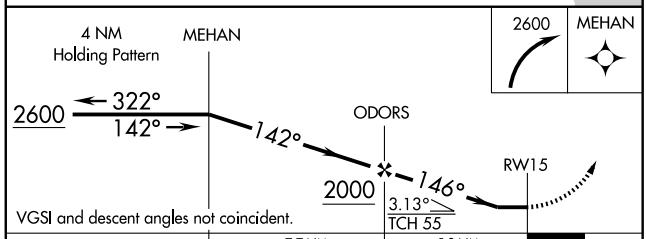
BALTIMORE / MARTIN STATE (MTN)

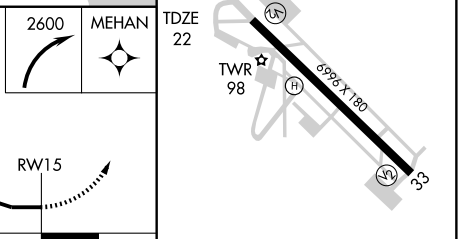
GPS or RNP-0.3 required.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 2600 direct MEHAN WP and hold.

ATIS	POTOMAC APP CON	MARTIN TOWER ★	GND CON	CLNC DEL	UNICOM
124.925	119.0 282.275	121.3 (CTAF) L 297.2	121.8 253.4	121.8	122.95







CATEGORY	A	B	C	D
LNAV MDA	540-1	518 (600-1)	540-1½ 518 (600-1½)	540-1¾ 518 (600-1¾)
CIRCLING	540-1	518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

Rwy 33 ldg 8100′
(Military Operations Only)
Rwy 15 take-off 8100′
(Military Operations Only)

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	6996
326°	TDZE	15
	Apt Elev	22

RNAV (GPS) RWY 33

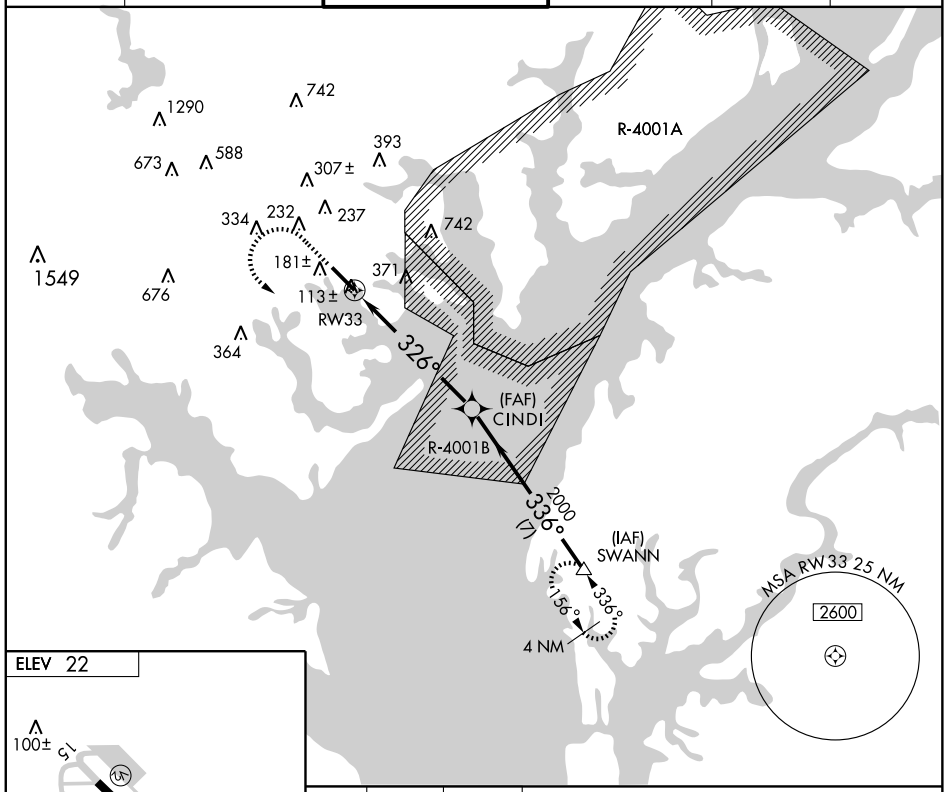
BALTIMORE / MARTIN STATE (MTN)

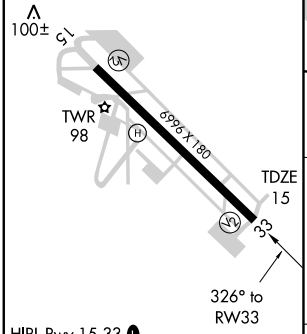
NA

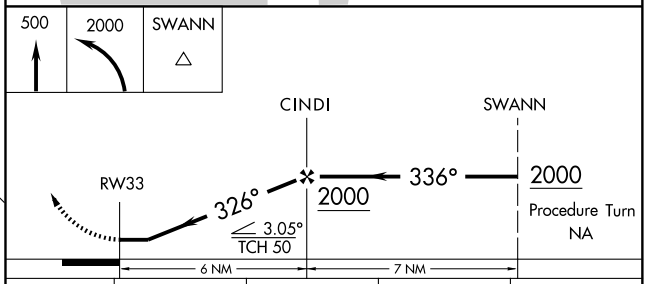
Clearance through R-4001 A/B must be obtained before using this approach.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct SWANN WP and hold.

ATIS	POTOMAC APP CON	MARTIN TOWER ★	GND CON	CLNC DEL	UNICOM
124.925	119.0 282.275	121.3 (CTAF) L 297.2	121.8 253.4	121.8	122.95







HIRL Rwy 15-33 L
REIL Rwys 15 and 33 L
Rwy 33 ldg 8100'
(Military Operations Only)
Rwy 15 take-off 8100'
(Military Operations Only)

CATEGORY	A	B	C	D
LNAV MDA	380-1 365 (400-1)			380-1¼ 365 (400-1¼)
CIRCLING	520-1 498 (500-1)		520-1½ 498 (500-1½)	680-2 658 (700-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

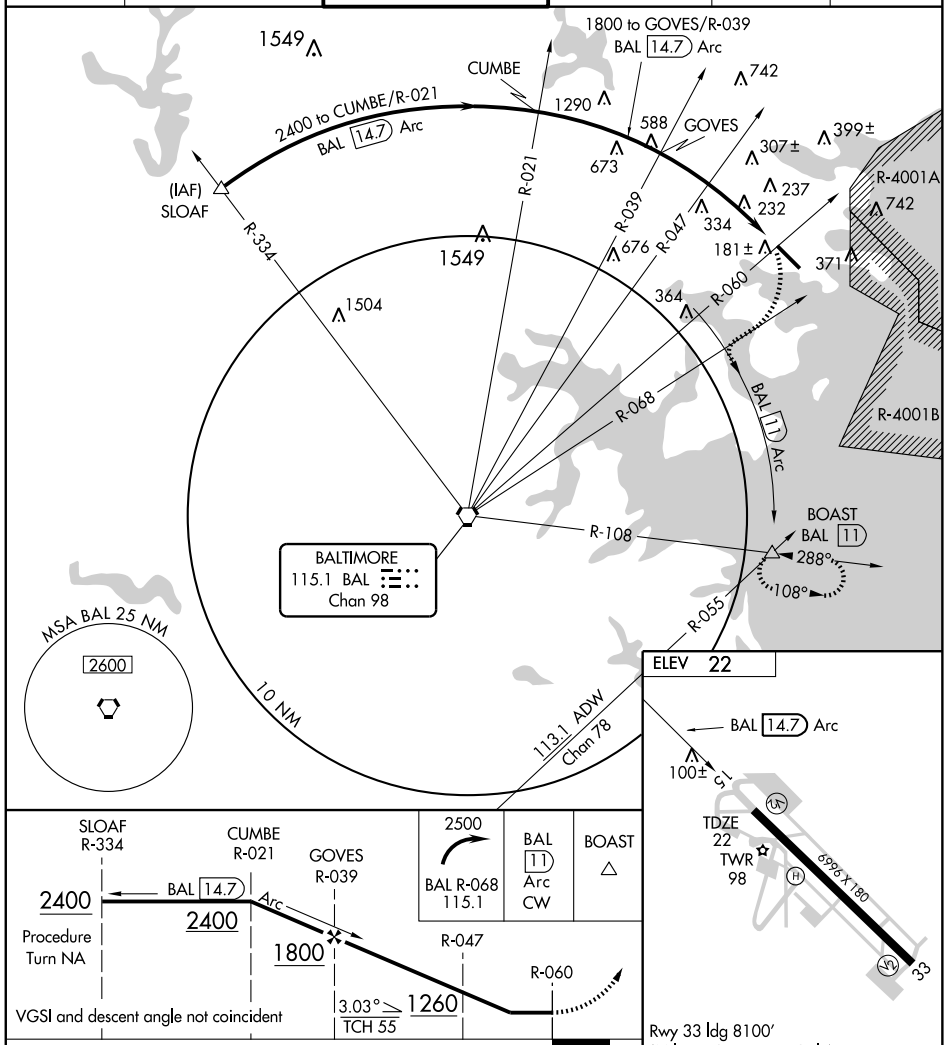
VORTAC BAL	BAL	Rwy Idg	6996
115.1	14.7	TDZE	22
Chan 98	Arc	Apt Elev	22

VOR/DME or TACAN Z RWY 15

BALTIMORE / MARTIN STATE (MTN)

MISSED APPROACH: Climbing right turn to 2500 via BAL R-068 and BAL 11 DME Arc clockwise to BOAST Int/BAL 11 DME and hold.

ATIS	POTOMAC APP CON	MARTIN TOWER ★	GND CON	CLNC DEL	UNICOM
124.925	119.0 282.275	121.3 (CTAF) L 297.2	121.8 253.4	121.8	122.95



CATEGORY	A	B	C	D
S-15	900-1 878 (900-1)	900-1¼ 878 (900-1¼)	900-2½ 878 (900-2½)	900-2¾ 878 (900-2¾)
CIRCLING	900-1 878 (900-1)	900-1¼ 878 (900-1¼)	900-2½ 878 (900-2½)	900-2¾ 878 (900-2¾)

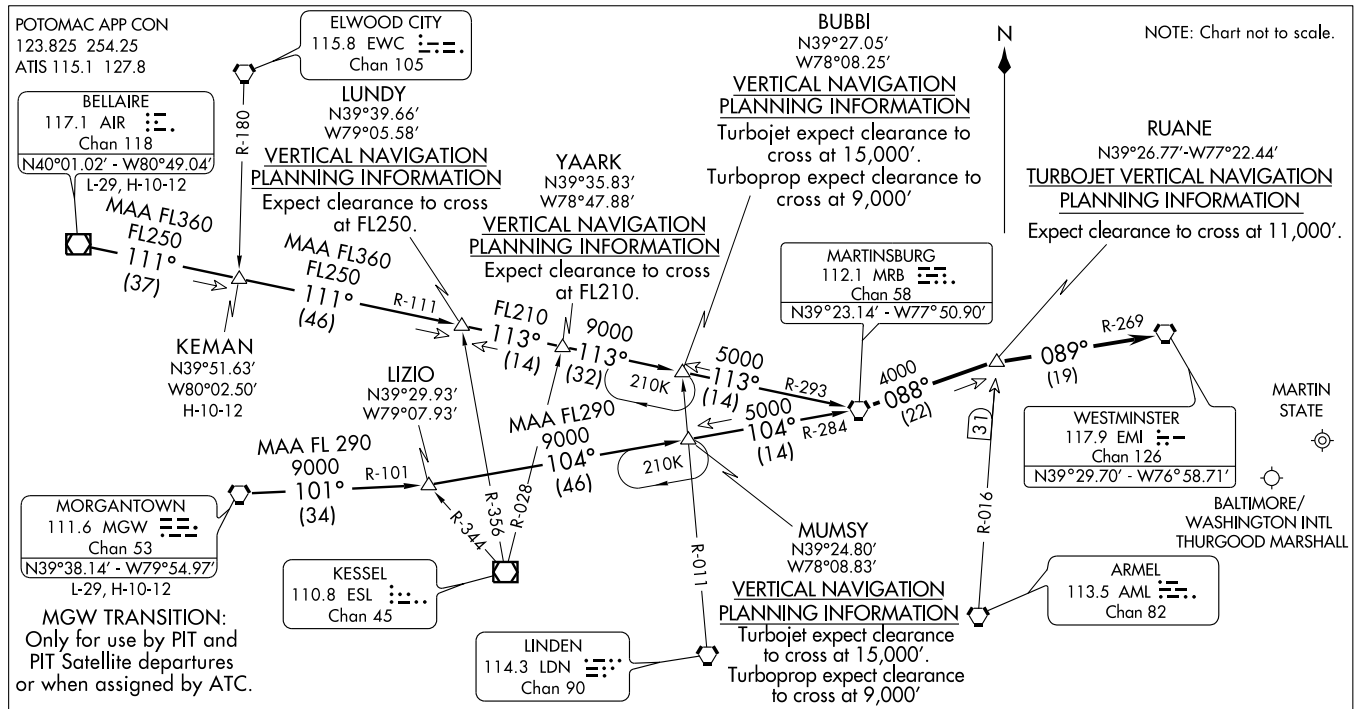
Rwy 33 ldg 8100′
(Military Operations Only)
Rwy 15 take-off 8100′
(Military Operations Only)

HIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

NE-3. 03 JUN 2010 to 01 JUL 2010

WESTMINSTER FIVE ARRIVAL (EMI.EMI5)

07298 ST-804 (FAA)



ARRIVAL ROUTE DESCRIPTION

BELLAIRE TRANSITION (AIR.EMI5): From over AIR VOR/DME via AIR R-111 to LUNDY INT, then via MRB VORTAC R-293 to MRB. Thence . . .
KEMAN TRANSITION (KEMAN.EMI5): From over KEMAN INT via AIR R-111 to LUNDY INT, then via MRB VORTAC R-293 to MRB. Thence . . .
MORGANTOWN TRANSITION (MGW.EMI5): From over MGW VORTAC via the MGW R-101 to LIZIO INT, then via MRB VORTAC R-284 to MRB. Thence . . .

. . . From MRB via MRB R-088 to RUANE INT, then via EMI VORTAC R-269 to EMI. Expect vectors to final approach course after EMI.

BALTIMORE, MARYLAND

NDB CGE 355	APP CRS 335°	Rwy Idg 4477 TDZE 20 Apt Elev 20

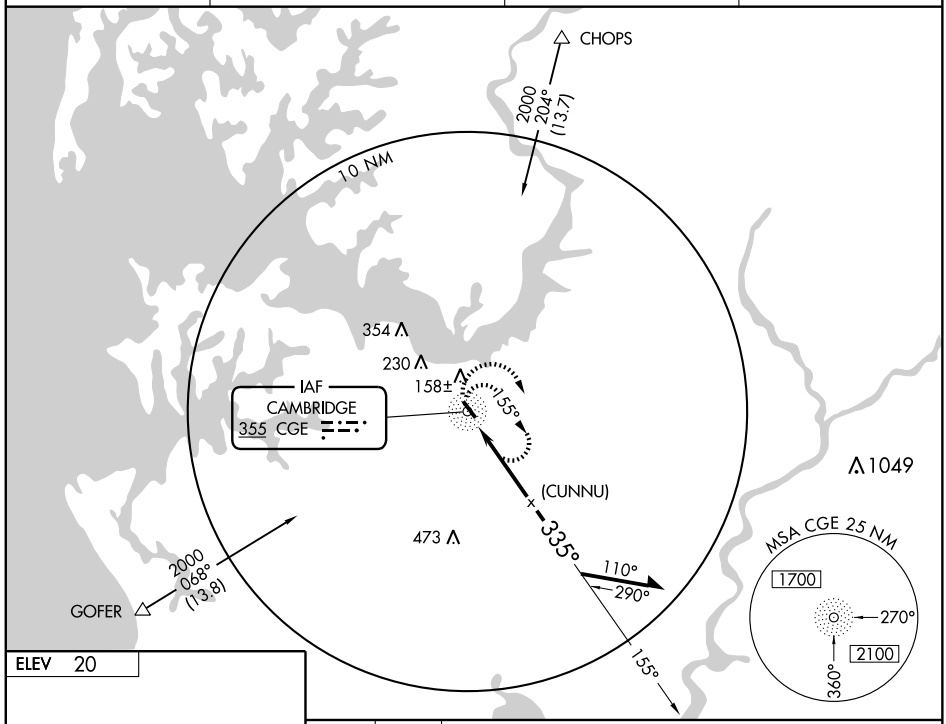
NDB or GPS RWY 34

CAMBRIDGE-DORCHESTER (CGE)

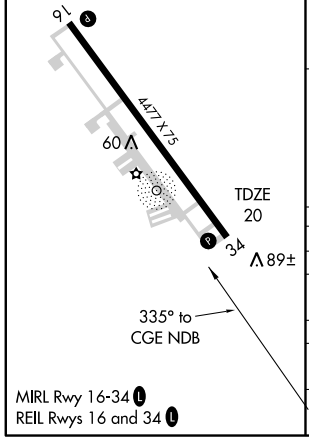
When Cambridge altimeter not received, use Salisbury altimeter.

MISSED APPROACH: Climbing right turn to 1600 in CGE NDB holding pattern.

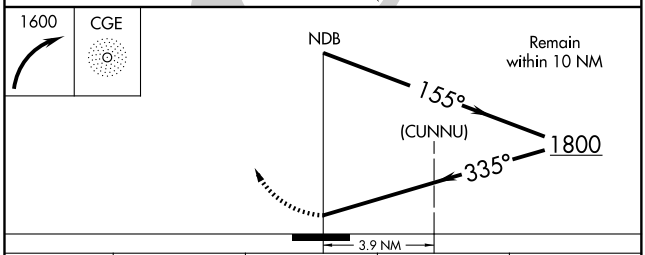
ASOS	PATUXENT APP CON ★	UNICOM	
120.675	121.0 250.3	122.7 (CTAF)	121.9 L



ELEV 20

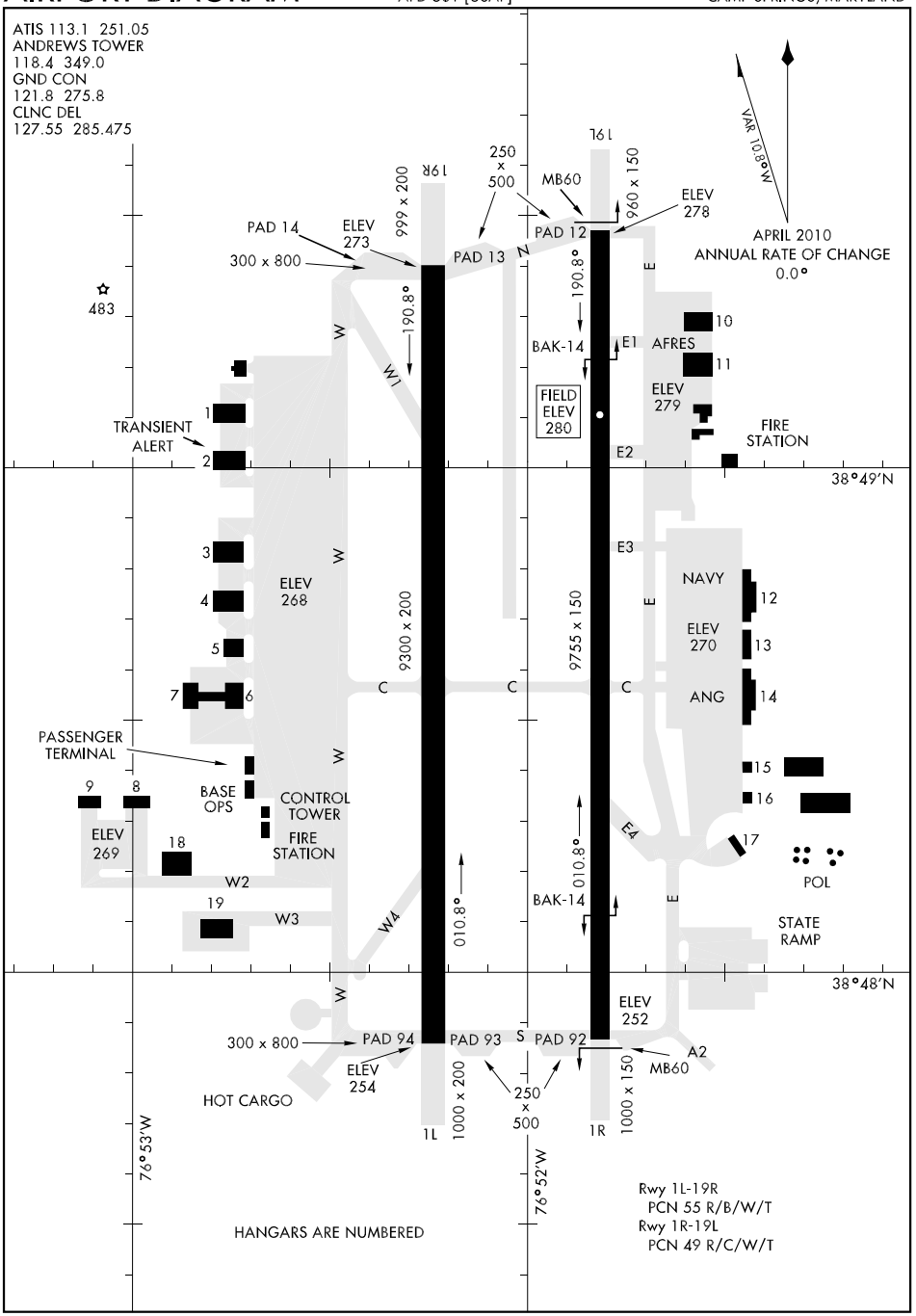


MIRL Rwy 16-34 L
REIL Rwys 16 and 34 L



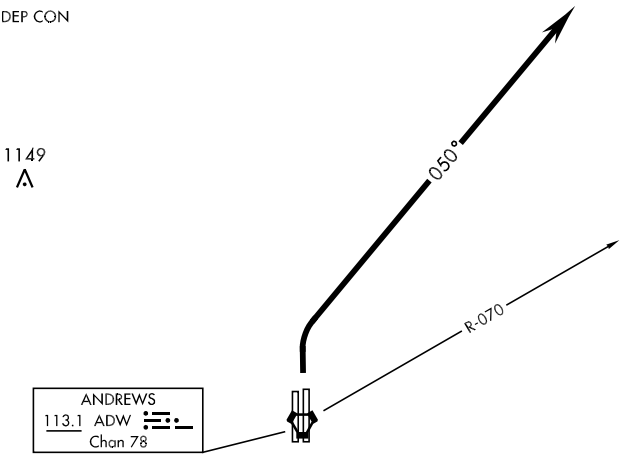
CATEGORY	A	B	C	D
S-34	440-1	420 (500-1)	440-1¼	420 (500-1¼)
CIRCLING	460-1 440 (500-1)	480-1 460 (500-1)	480-1½ 460 (500-1½)	580-2 560 (600-2)
SALISBURY ALTIMETER MINIMUMS				
S-34	560-1	540 (600-1)	560-1½ 540 (600-1½)	560-1¾ 540 (600-1¾)
CIRCLING	580-1	560 (600-1)	580-1½ 560 (600-1½)	680-2 660 (700-2)

NE-3. 03 JUN 2010 to 01 JUL 2010



NE-3, 03 JUN 2010 to 01 JUL 2010

ATIS 113.1 251.05
GND CON
121.8 275.8
ANDREWS TOWER
118.4 349.0
POTOMAC TRACON DEP CON
125.65 348.725



RADAR VECTORS REQUIRED
WITHIN 10 NM
FROM DEPARTURE

RADAR REQUIRED

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 1L/1R: Turn right climb on track 050° to 3000. Expect radar vectors to intercept ADW R-070.

NE-3, 03 JUN 2010 to 01 JUL 2010

CAMP SPRINGS ONE DEPARTURE

SL-561 [USAF]

CAMP SPRINGS, MARYLAND

ATIS 113.1 251.05
GND CON
121.8 275.8
ANDREWS TOWER
118.4 349.0
POTOMAC TRACON DEP CON
118.95 257.2

Rwy	Knots	60	120	180	240
1L/1R	V/V(fpm)	380	760	1140	1520

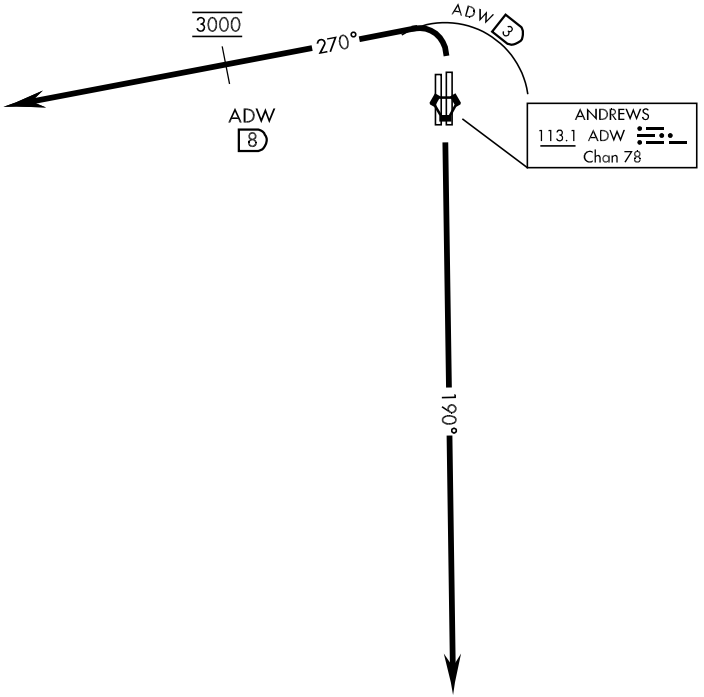
ATC Climb Rate to 3000

If unable to make published climb gradient advise ATC prior to departure.

RADAR REQUIRED

1149
A

RADAR VECTORS REQUIRED WITHIN 10 NM FROM DEPARTURE

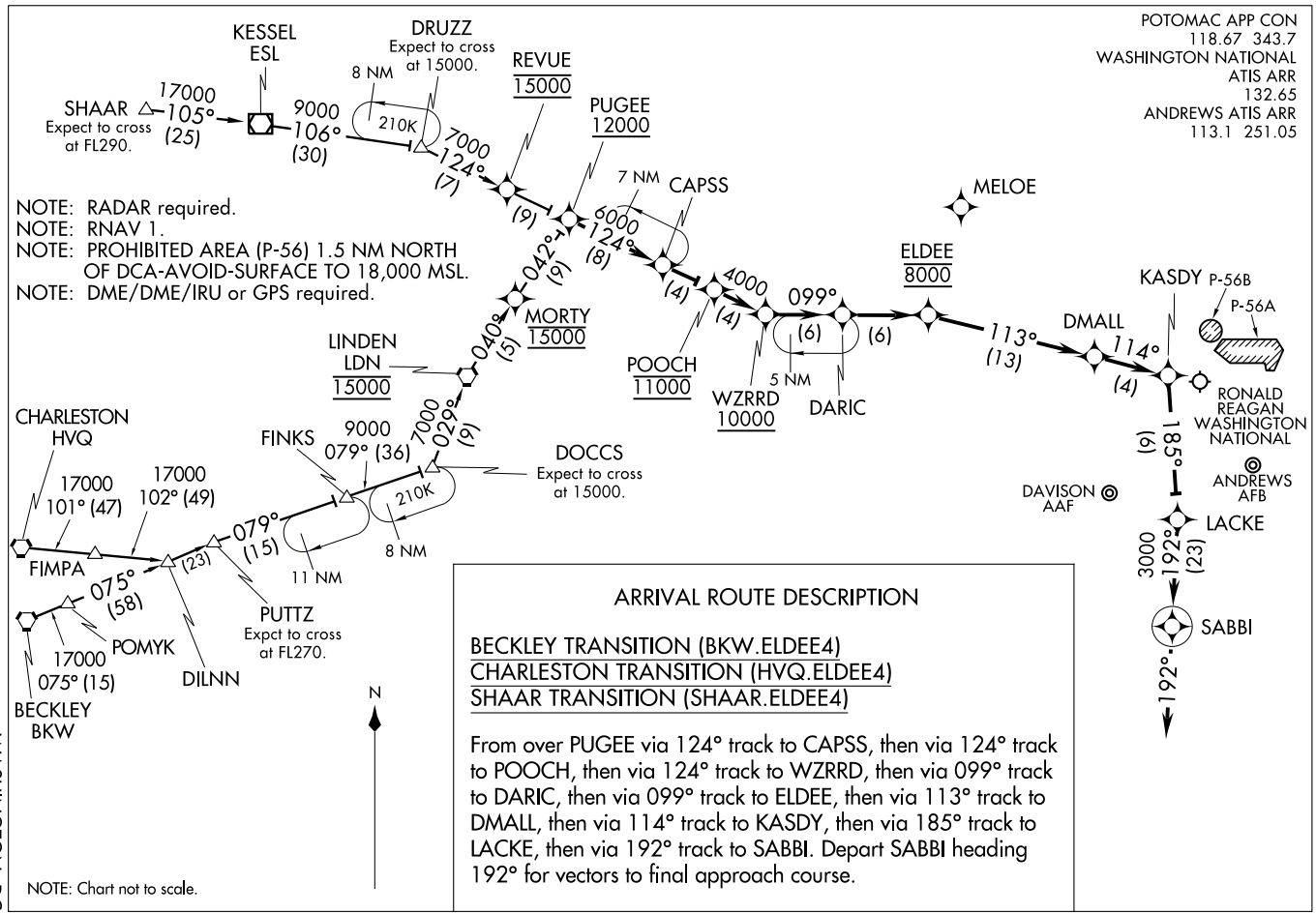


NE-3, 03 JUN 2010 to 01 JUL 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 1L/1R: Turn left climb on track 270° within 3 DME of ADW VORTAC, cross ADW 8 DME at 3000. Expect radar vectors.

TAKE-OFF RWY 19R/19L: Climb on track 190° to 3000. Expect radar vectors to the west.



ELDEE FOUR ARRIVAL (RNAV)

(ELDEE.ELDEE4) 09015

ST-443 (FAA)

WASHINGTON, DC

ILS or LOC/DME RWY 19L

LOC I-GQZ 110.5	APCH CRS 190°	Rwy ldg 9755 TDZE 280 Arpt Elev 280

AL-561 [USAF]

ANDREWS AFB (KADW)

▼ * When ALS inop, increase CAT CDE RVR to 50 and vis to 1 mile.
** When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.

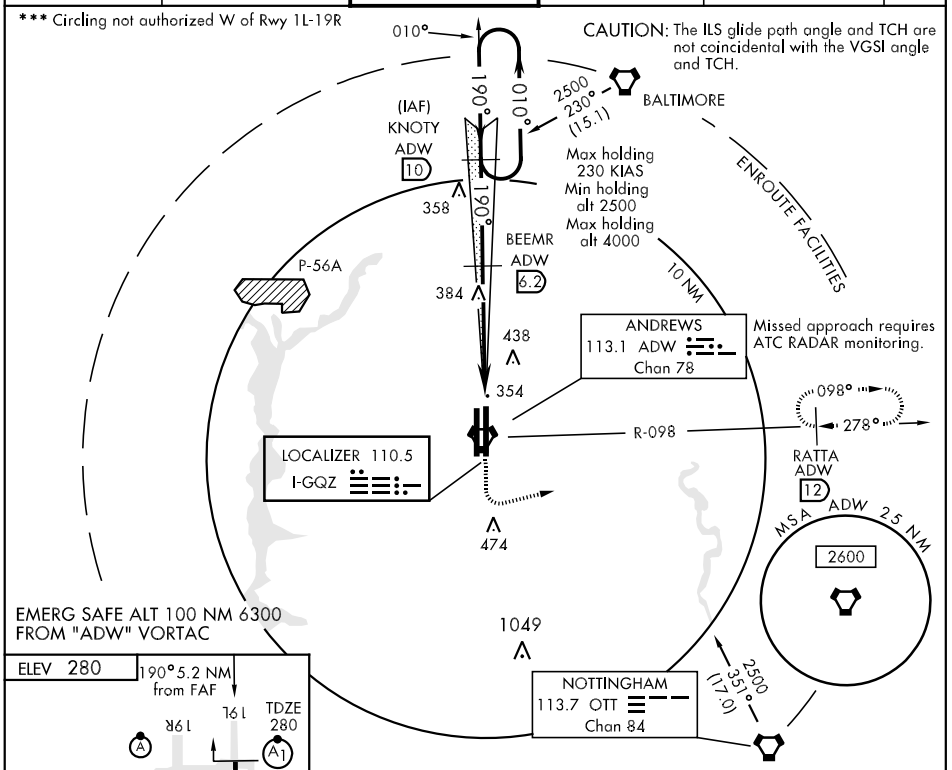
ALSF-1 (A1)

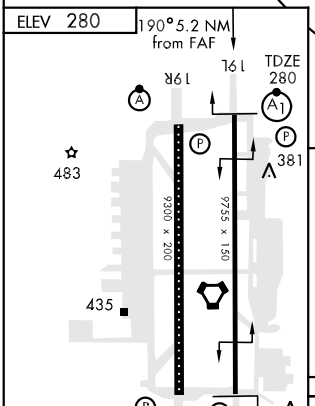
MISSED APPROACH: Climb to 900 then climbing left turn to 2500 direct RATTA and hold.

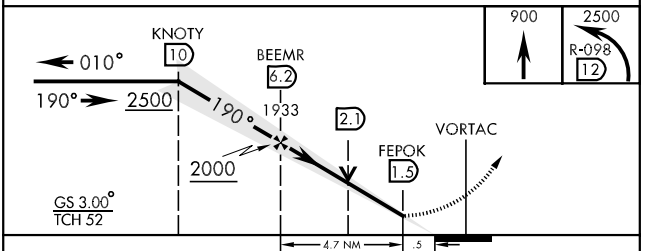
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	

*** Circling not authorized W of Rwy 1L-19R

CAUTION: The ILS glide path angle and TCH are not coincidental with the VGSI angle and TCH.







FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

CATEGORY	A	B	C	D	E
S-ILS 19L *	564/40		284		(300-¾)
S-LOC 19L **	680/40	400		(400-¾)	680/50 400 (400-1)
CIRCLING ***	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

ILS or LOC RWY 1L

ANDREWS AFB (KADW)

LOC I-RWS	APCH CRS	Rwy ldg / TDZE / Arpt Elev
111.5	010°	9300 / 260 / 280

AL-561 [USAF]

* When ALS inop increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ miles.

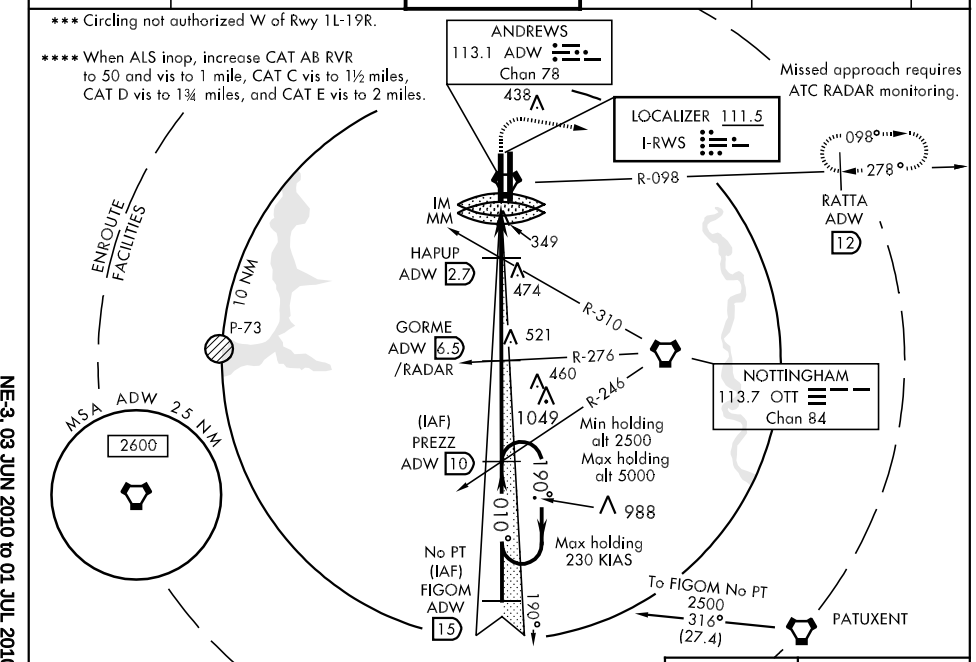
ALSF-2

MISSED APPROACH: Climb to 900 then climbing right turn to 2500 direct RATTA and hold. Expect further clearance from APP CON.

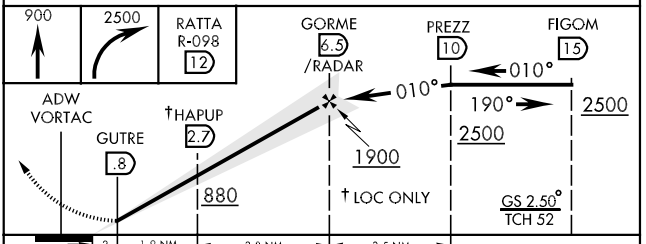
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	

*** Circling not authorized W of Rwy 1L-19R.

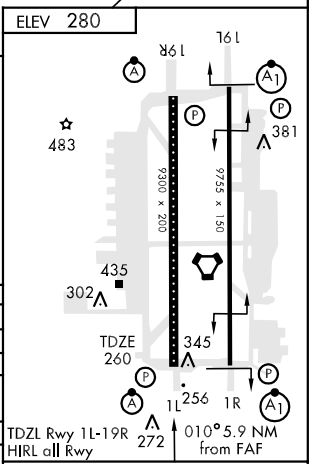
**** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¾ miles, and CAT E vis to 2 miles.



EMERG SAFE ALT 100 NM 6300 FROM "ADW" VORTAC



CATEGORY	A	B	C	D	E
S-ILS 1L *	460/18 200 (200-½)		460/24 200 (200-½)		
S-LOC 1L **	640/24 380 (400-½)		640/40 380 (400-¾)		
CIRCLING***	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)
WITHOUT LAST STEPDOWN FIX					
S-LOC 1L ****	800/24 540 (600-½)		800/50 540 (600-1)	800/60 540 (600-1¼)	800/1½ 540 (600-1½)
CIRCLING***	780-1 500 (500-1)		780-1½ 500 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)



TDZL Rwy 1L-19R
HIRL all Rwy

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

NE-3, 03 JUN 2010 to 01 JUL 2010

ILS or LOC RWY 1R

ANDREWS AFB (KADW)

LOC I-VJM	APCH CRS	Rwy ldg / TDZE / Arpt Elev
110.5	010°	9755 / 265 / 280

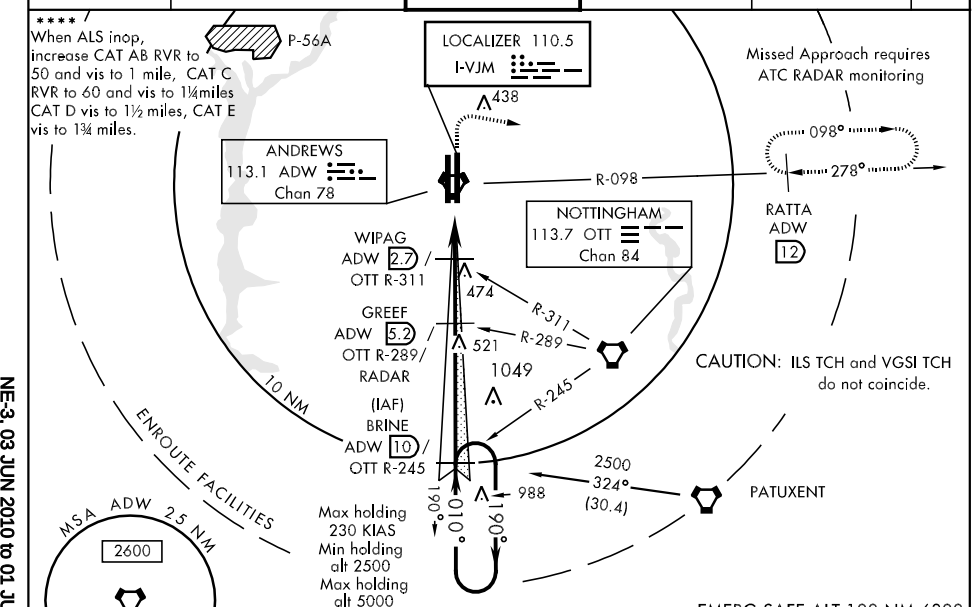
AL-561 [USAF]

*When ALS inop, increase RVR to 50, vis to 1 mile.
**When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ miles.
***Circling not authorized W of Rwy 1L-19R.

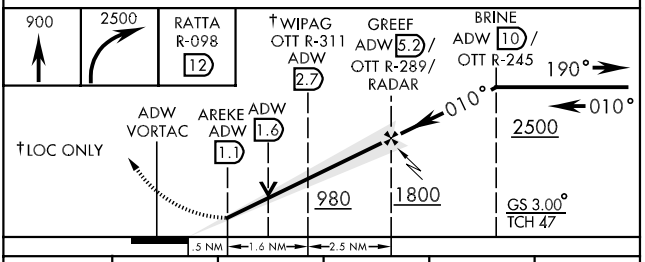
ALSF-1

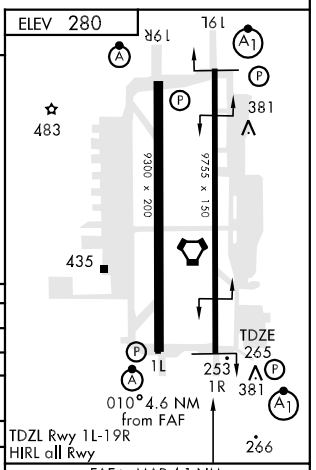
MISSED APPROACH: Climb to 900 then climbing right turn to 2500 direct RATTA and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300 FROM "ADW" VORTAC





CATEGORY	A	B	C	D	E
S-ILS 1R *	515/40		250	(300-¾)	
S-LOC 1R **	640/40		375	(400-¾)	
CIRCLING ***	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)
NON-DME AND SINGLE VOR MINIMA					
S-LOC 1R ****	760/40 495 (500-¾)			760/50 495 (500-1)	760/60 495 (500-1¼)
CIRCLING ***	760-1 480 (500-1)		760-1½ 480 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

FAF to MAP 4.1 NM

Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

NE-3, 03 JUN 2010 to 01 JUL 2010

ILS or LOC RWY 19R

LOC I-MXK	APCH CRS	Rwy ldg	TDZE	Arpt Elev
111.5	190°	9300	273	280

AL-561 [USAF]

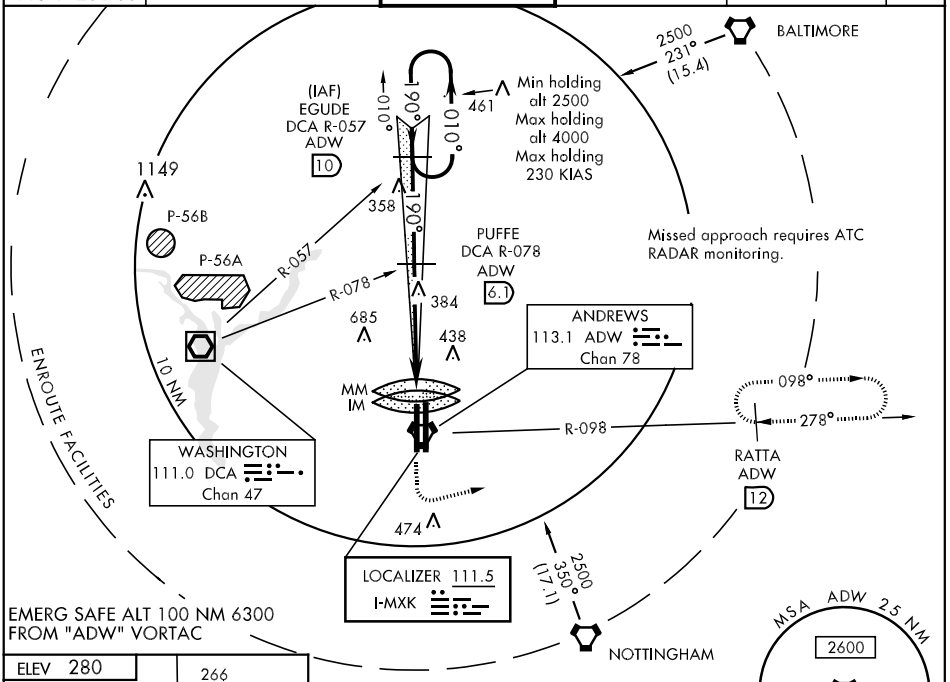
ANDREWS AFB (KADW)

* When ALS inop, increase CAT ABCDE RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles..
*** Circling not authorized W of Rwy 1L-19R.

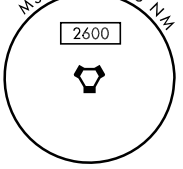
ALSF-2

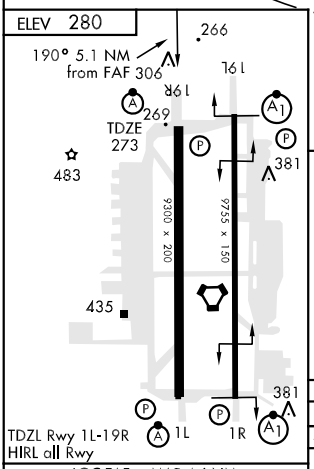
MISSED APPROACH: Climb to 900, then climbing left turn to 2500 direct RATTA and hold.

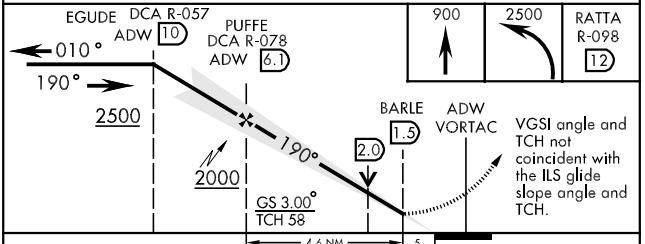
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300 FROM "ADW" VORTAC







LOC FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

CATEGORY	A	B	C	D	E
S-ILS 19R *	473/18 200 (200-½)		473/24 200 (200-½)		
S-LOC 19R**	680/24 407 (400-½)		680/40 407 (400-¾)		680/50 407 (400-1)
CIRCLING ***	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460(500-1 ½)	840-2 560 (600-2)	880-2 600 (600-2)

38° 49'N-76° 52'W

ILS RWY 1L (CAT II)

LOC I-RWS	APCH CRS	Rwy Idg / TDZE / Arpt Elev
111.5	010°	9300 / 260 / 280

AL-561 [USAF]

ANDREWS AFB (KADW)

ALSF-2

MISSED APPROACH: Climb to 900 then climbing right turn to 2500 direct RATTA and hold. Expect further clearance from APP CON.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	

CATEGORY II ILS
SPECIAL AIRCREW &
AIRCRAFT CERTIFICATION
REQUIRED

LOCALIZER 111.5
I-RWS

Missed approach requires ATC RADAR monitoring.

438

098°
278°

R-098

IM
MM

344

474

ANDREWS
113.1 ADW
Chan 78

RATTA
ADW
12

P-73

GORME
ADW
6.5

460

1049

R-246

NOTTINGHAM
113.7 OTT
Chan 84

(IAF)
PREZZ
ADW 10

Min holding alt 2500
Max holding alt 5000

190°

010°

988

(IAF)
FIGOM
ADW
15

PTX R-316
No PT

PATUXENT
117.6 PXT
Chan 123

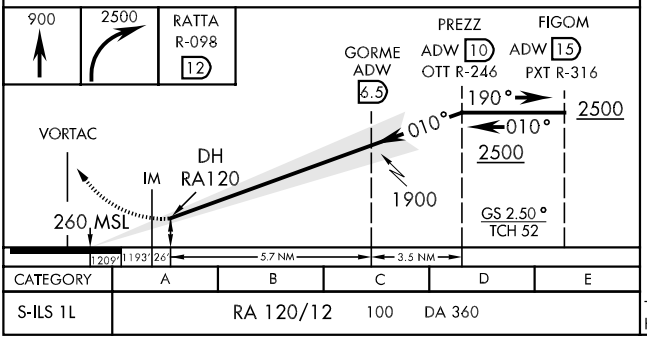
10 NM

2500
316°
(27.4)
No PT

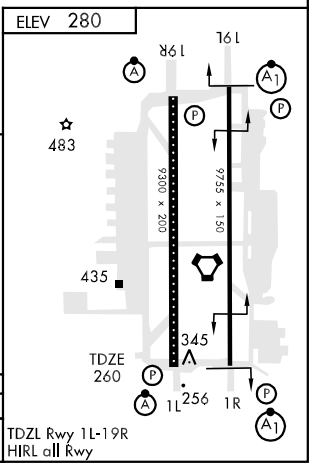
MSA ADW 25 NM
2600

ENROUTE FACILITIES

EMERG SAFE ALT 100 NM 6300
FROM "ADW" VORTAC



CATEGORY	A	B	C	D	E
S-ILS 1L	RA 120/12	100	DA 360		



NE-3, 03 JUN 2010 to 01 JUL 2010

ILS RWY 19R (CAT II)

LOC I-MXK	APCH CRS	Rwy ldg 9300 / TDZE 273 / Arpt Elev 280
111.5	190°	

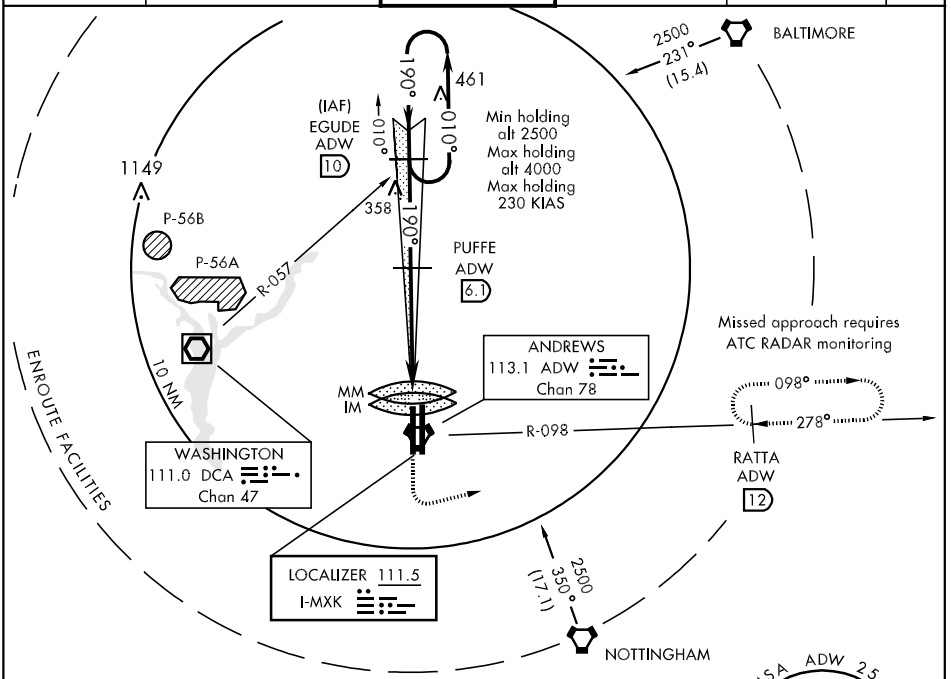
AL-561 [USAF]

ANDREWS AFB (KADW)

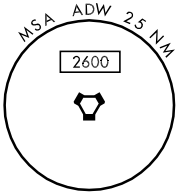
ALSF-2

MISSED APPROACH: Climb to 900 then climbing left turn to 2500 direct RATTA and hold.

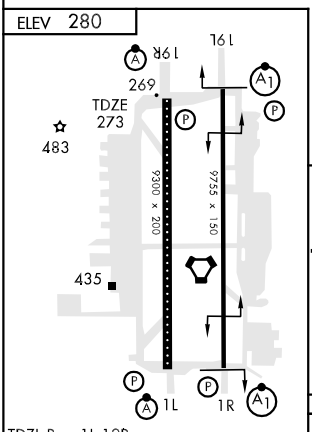
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300
FROM "ADW" VORTAC

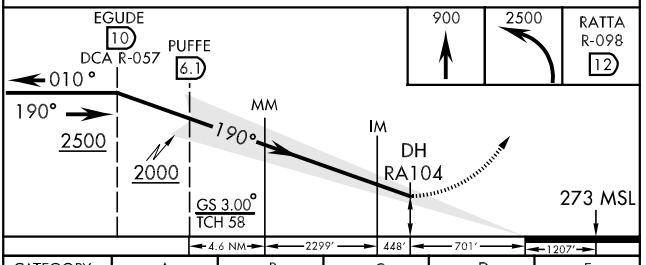


ELEV 280



TDZL Rwy 1L-19R
HIRL all Rwy

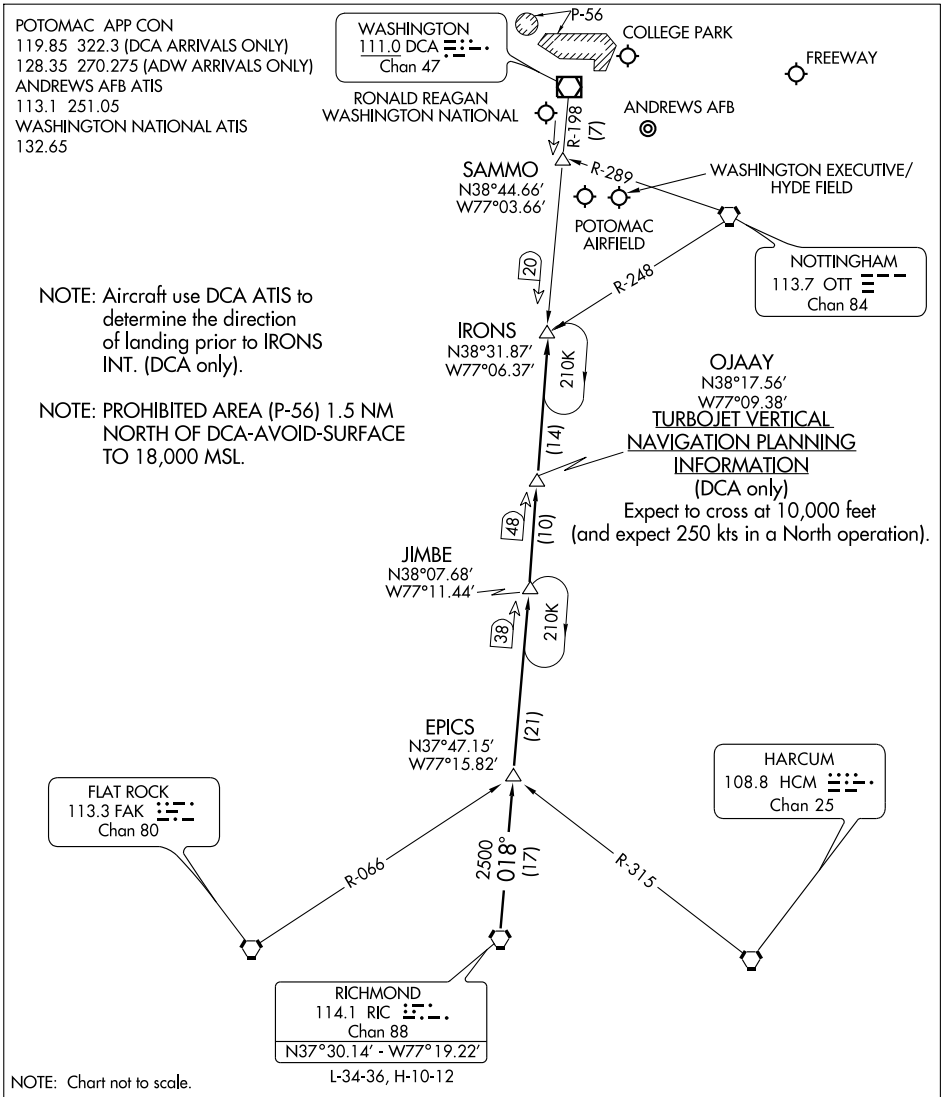
CATEGORY II ILS-SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED



CATEGORY	A	B	C	D	E
S-ILS 19R	RA 104/12	100	DA 373		

IRONS FOUR ARRIVAL

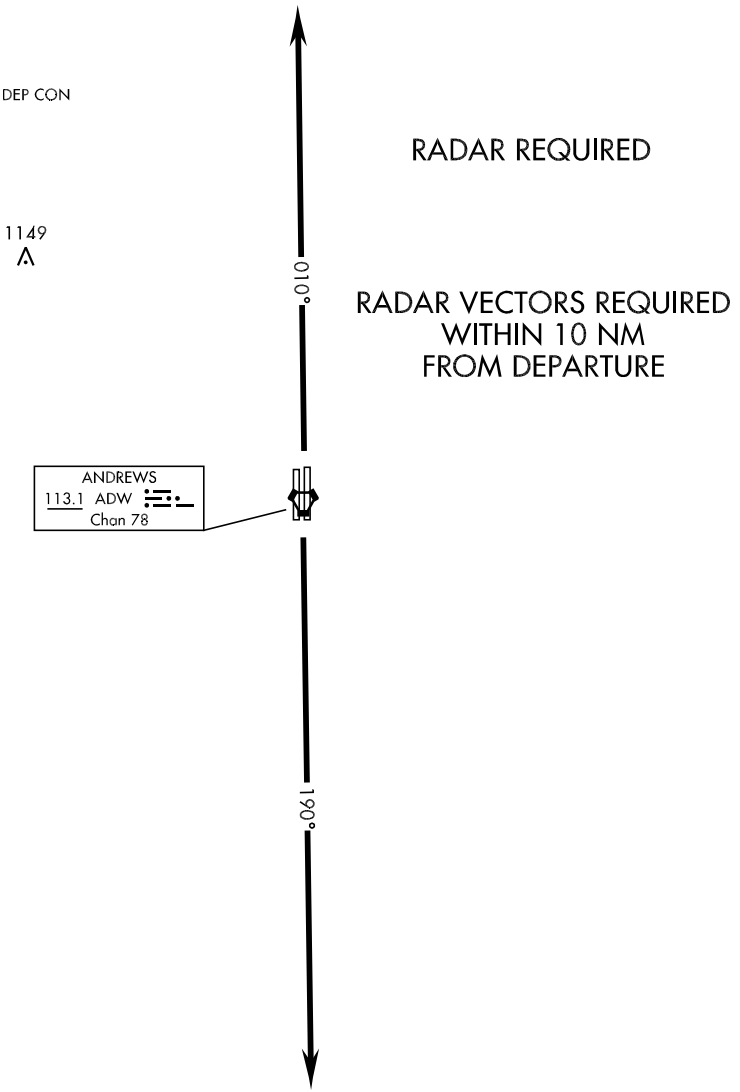
WASHINGTON, DC



RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence. . . .

. . . .From over IRONS INT:
Ronald Reagan Washington National Airport (DCA only):
LANDING SOUTH: Then via DCA R-198 to SAMMO INT, heading for vectors to the final approach course.
LANDING NORTH: Expect vectors to final approach course.
All other airports: Expect vectors.

ATIS 113.1 251.05
GND CON
121.8 275.8
ANDREWS TOWER
118.4 349.0
POTOMAC TRACON DEP CON
125.65 348.725



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 1L/1R: Climb on track 010° to 3000. Expect radar vectors.

TAKE-OFF RWY 19R/19L: Climb on track 190° to 3000. Expect radar vectors to the South or East.

NE-3, 03 JUN 2010 to 01 JUL 2010

NDB RWY 1L

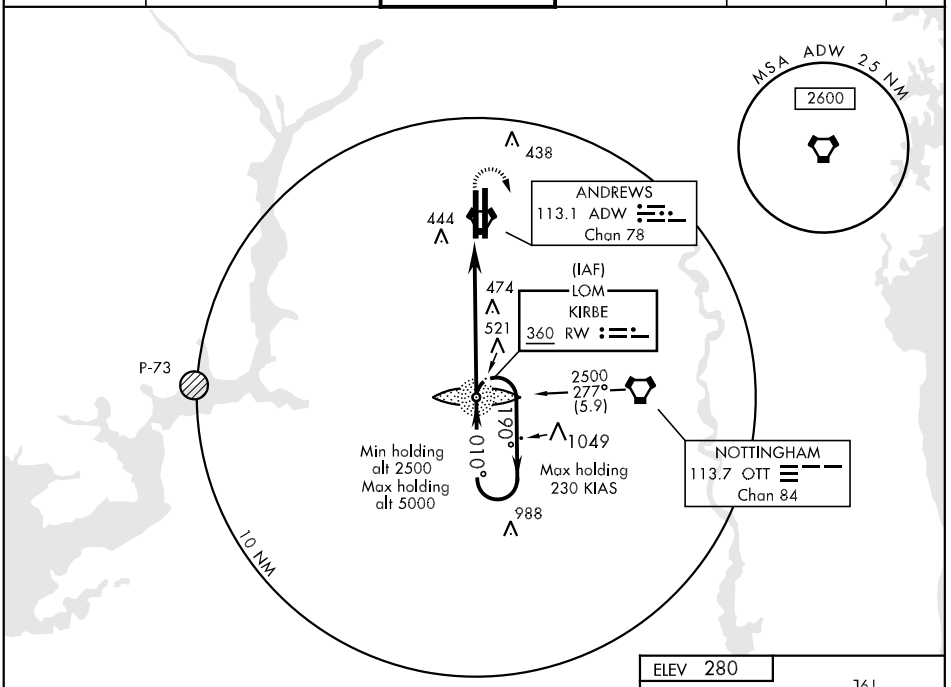
LOM RW	APCH CRS	Rwy ldg / TDZE / Arpt Elev	AL-561 [USAF]
360	010°	9300 / 260 / 280	ANDREWS AFB (KADW)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¾ miles, and CAT E vis to 2 miles.
** Circling not authorized W of Rwy 1L-19R.

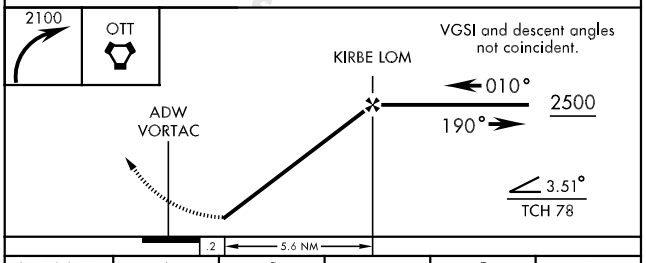
ALSF-2

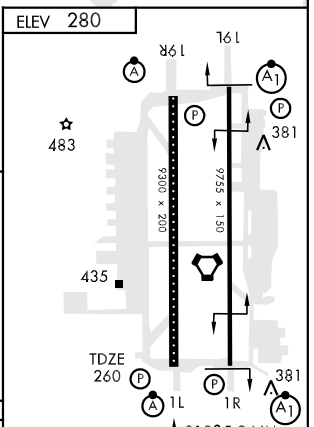
MISSED APPROACH: Climbing right turn to 2100 direct OTT VORTAC. Expect further clearance from APP CON.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300





CATEGORY	A	B	C	D	E
S-1L *	800/24 540 (600-½)		800/50 540 (600-1)	800/60 540 (600-1¼)	800-1½ 540 (600-1½)
CIRCLING **	800-1 520 (600-1)		800-1½ 520 (600-1½)	840-2 560 (600-2)	880-2 600 (600-2)

TDZL Rwy 1L-19R
HIRL all Rwy

010° 5.8 NM from LOM

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 1L

ANDREWS AFB (KADW)

AL-561 [USAF]

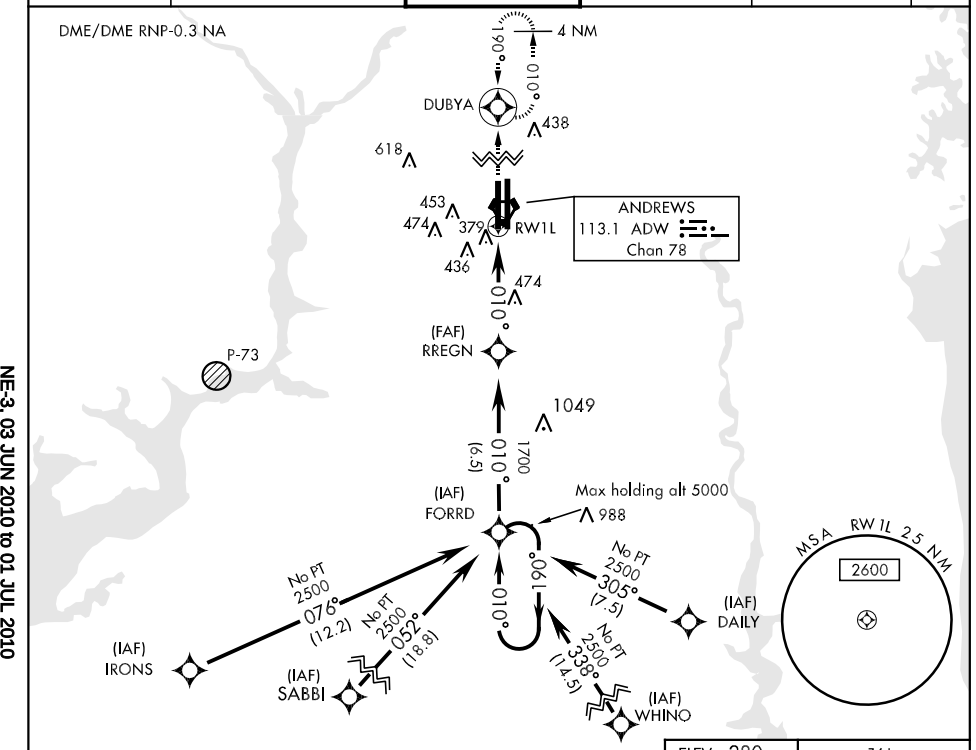
APCH CRS	Rwy ldg	9300
010°	TDZE	260
	Arpt Elev	280

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling not authorized W of Rwy 1L-19R.

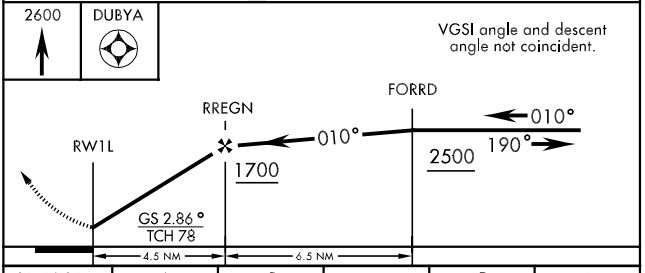
ALSF-2

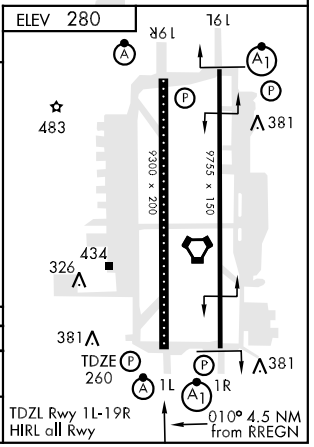
MISSED APPROACH: Climb to 2600 direct DUBYA and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	124.0 269.0	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300





CATEGORY	A	B	C	D	E
LNAV MDA*	760/24	500 (500-½)	760/40 500 (500-¾)	760/50 500 (500-1)	760/60 500 (500-1¼)
CIRCLING**	760-1	480 (500-1)	760-1½ 480 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 19R

APCH CRS	Rwy ldg	9300
190°	TDZE	273
	Arpt Elev	280

AL-561 [USAF]

ANDREWS AFB (KADW)

* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling not authorized W of Rwy 1L-19R.

ALSF-2

MISSED APPROACH: Climb to 2600 direct FORRD and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	124.0 269.0	118.4 349.0	121.8 275.8	127.55 285.475	

DME/DME RNP-0.3 NA

(IAF) YOKUM

(IAF) BELTS

No PT 2600 224° (9.6)

No PT 2600 150° (7.1)

190° 010°

503 461

No PT 2600 271° (17.1)

(IAF) GEEMO

(IAF) DUBYA

395

Max holding alt 5000

190° (6) 2000

1149

P-56B

P-56A

620

(FAF) BUUSH

384

190° (1.1)

685 500 438

336 463

RW19R

ANDREWS 113.1 ADW Chan 78

MSA RW19R 25 NM 2600

FORRD

474

190° 010° 4 NM

EMERG SAFE ALT 100 NM 6300

ELEV 280

190° 5.0 NM from BUUSH

19R 19L

TDZE 273

483

381

9300 × 200

9755 × 150

434

381

1L 1R

TDZL Rwy 1L-19R HIRL all Rwy

2600 FORRD

010° DUBYA

190° 2600

BUUSH 2000

1.2 NM to RW19R

RW19R

3.08° TCH 91

6.0 NM 5.0 NM

CATEGORY	A	B	C	D	E
LNAV MDA *	740/24	467 (500-½)	740/40 467 (500-¾)	740/50 467 (500-1)	740/60 467 (500-1¼)
CIRCLING **	740-1	460 (500-1)	740-1½ 460 (500-½)	840-2 560 (600-2)	880-2 600 (600-2)

38° 49'N-76° 52'W

TACAN RWY 1L

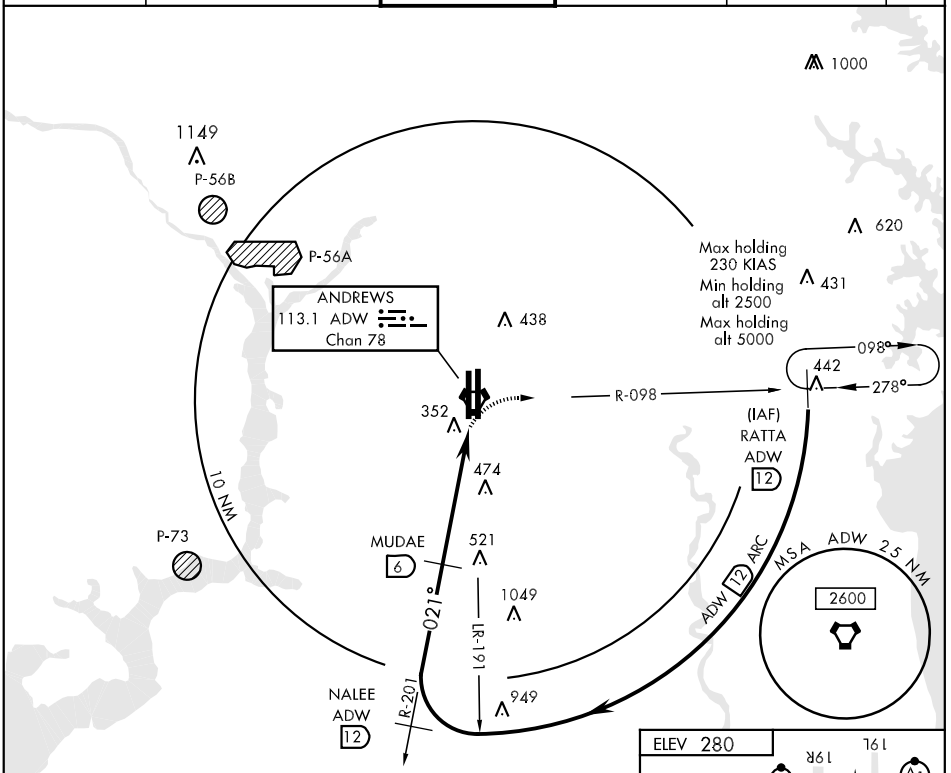
VORTAC ADW 113.1 Chan 78	APCH CRS 021°	Rwy ldg 9300 TDZE 260 Arpt Elev 280	AL-561 [USAF]	ANDREWS AFB (KADW)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling not authorized W of Rwy 1L-19R.

ALSF-2

MISSED APPROACH: Climb to 2500 via ADW VORTAC R-098 to RATTA and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



CATEGORY	A	B	C	D	E
S-1L *	760/24 500	(500-½)	760/40 500 (500-¾)	760/50 500 (500-1)	760/60 500 (500–1¼)
CIRCLING **	760-1 480	(500-1)	760-1½ 480 (500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

TACAN RWY 1R

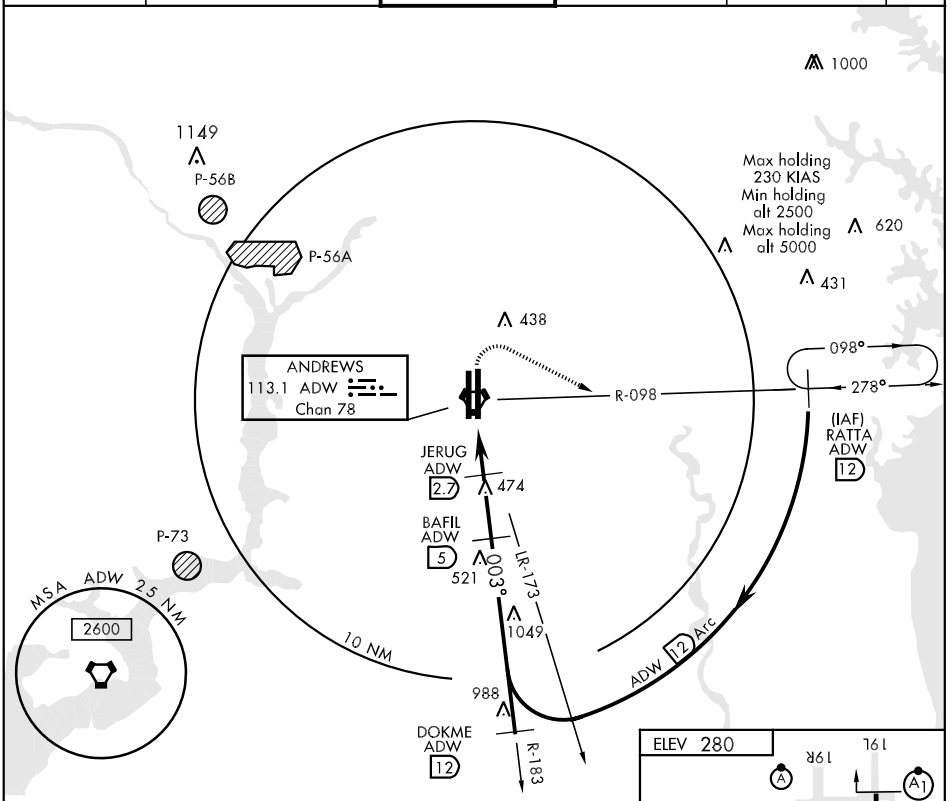
VORTAC ADW 113.1 Chan 78	APCH CRS 003°	Rwy ldg 9755 TDZE 265 Arpt Elev 280	AL-561 [USAF]	ANDREWS AFB (KADW)

T * When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile, CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
** Circling not authorized W of Rwy 1L-19R.

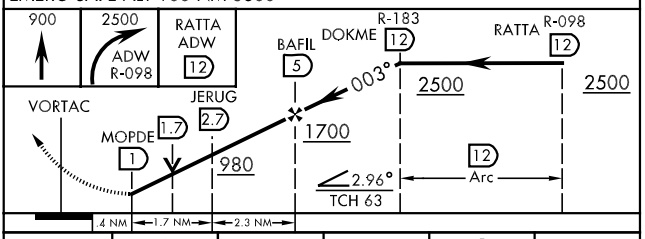
ALSF-1 (A1)

MISSED APPROACH: Climb to 900 then climbing right turn to 2500 to RATTA via ADW R-098 and hold.

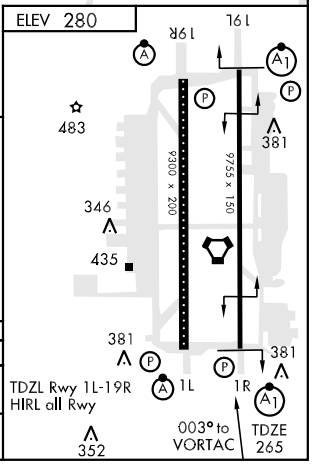
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300



CATEGORY	A	B	C	D	E
S-1R *	660/40		395	(400-¾)	660/50 395 (400-1)
CIRCLING **	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460(500-1½)	840-2 560 (600-2)	880-2 600 (600-2)



NE-3, 03 JUN 2010 to 01 JUL 2010

CAMP SPRINGS, MARYLAND

TACAN RWY 19L

VORTAC ADW	APCH CRS	Rwy ldg 9755
113.1	196°	TDZE 280
Chan 78		Arpt Elev 280

AL-561 [USAF]

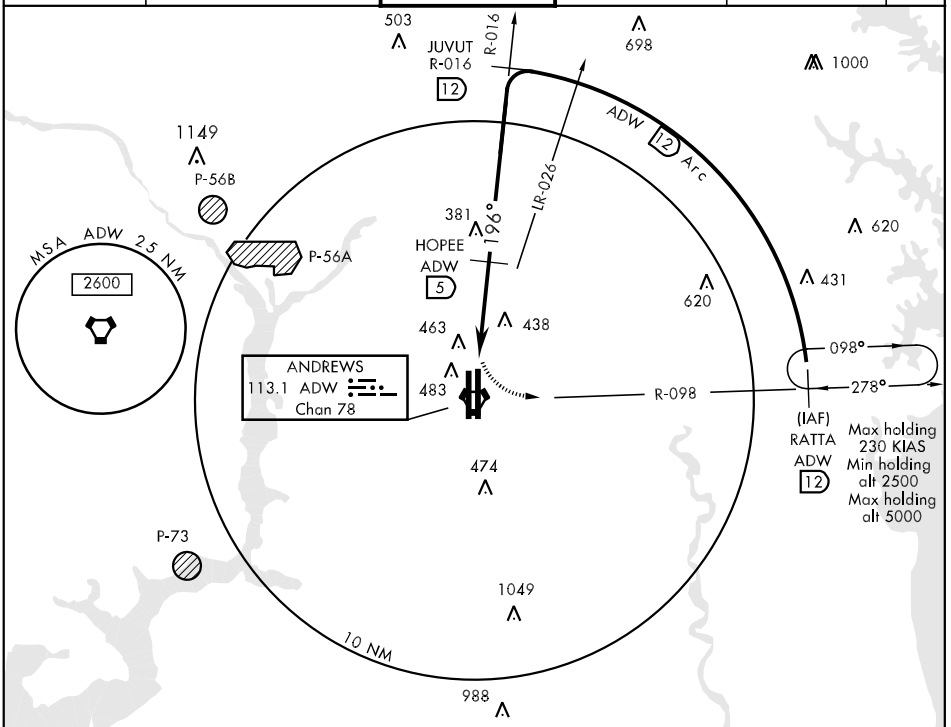
ANDREWS AFB (KADW)

* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles and CAT DE vis to 1½ miles.
** Circling not authorized W of Rwy 1L-19R.

ALSF-1

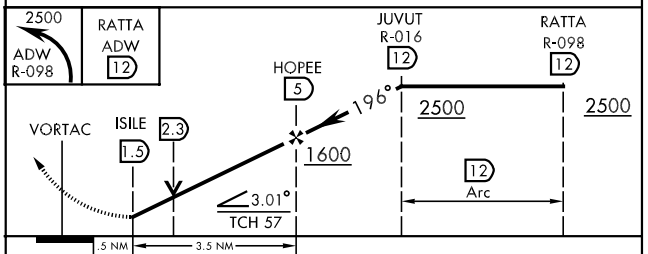
MISSED APPROACH: Climbing left turn to 2500 via ADW TACAN R-098 to RATTA and hold.

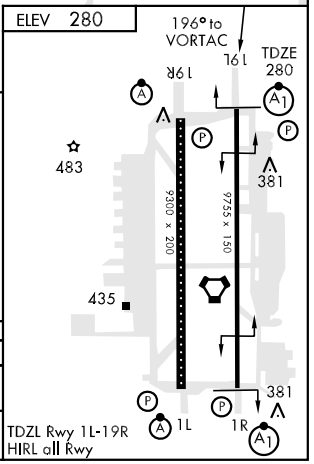
ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



NE-3, 03 JUN 2010 to 01 JUL 2010

EMERG SAFE ALT 100 NM 6300





CATEGORY	A	B	C	D	E
S-19L *	720/40	440	(500-¾)	720/50	440 (500-1)
CIRCLING **	720-1 440 (500-1)	740-1 460 (500-1)	740-1½ 460(500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

TDZL Rwy 1L-19R
HIRL all Rwy

CAMP SPRINGS, MARYLAND

TACAN RWY 19R

VORTAC ADW 113.1 Chan 78	APCH CRS 182°	Rwy ldg 9300 TDZE 273 Arpt Elev 280

AL-561 [USAF]

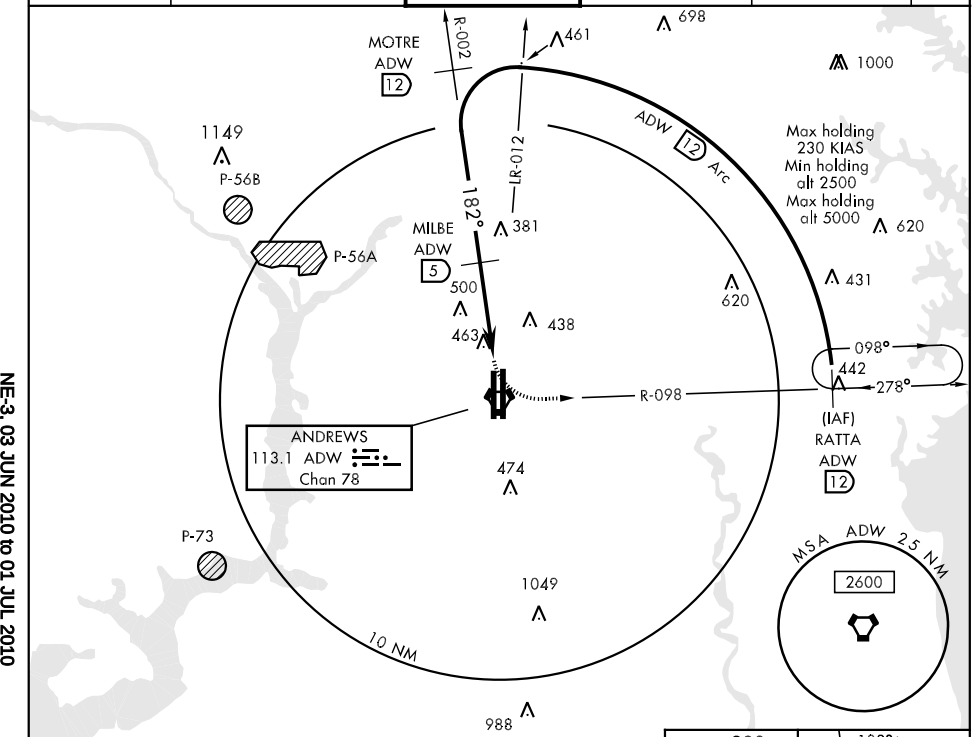
ANDREWS AFB (KADW)

* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD vis to 1½ miles, CAT E vis to 1¾.
** Circling not authorized W of Rwy 1L-19R.

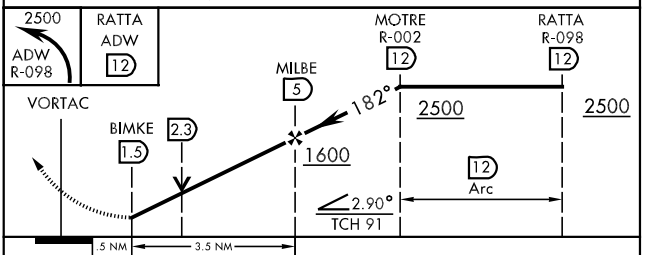
ALSF-2

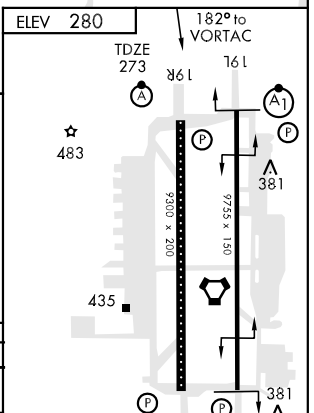
MISSED APPROACH: Climbing left turn to 2500 via ADW TACAN R-098 to RATTA and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300





CATEGORY	A	B	C	D	E
S-19R*	780/24	507 (500-½)	780/50	507 (500-1)	780/60 507(500-1¼)
CIRCLING**	780-1	500 (500-1)	780-1½ 500(500-1½)	840-2 560 (600-2)	880-2 600 (600-2)

TDZL Rwy 1L-19R
HIRL all Rwy

CAMP SPRINGS, MARYLAND

38°49'N-76°52'W

ANDREWS AFB (KADW)

Orig 09323

TACAN RWY 19R

NE-3, 03 JUN 2010 to 01 JUL 2010

VOR/DME or TACAN-A

VORTAC ADW 113.1 Chan 78	APCH CRS 278°	Rwy ldg NA TDZE NA Arpt Elev 280

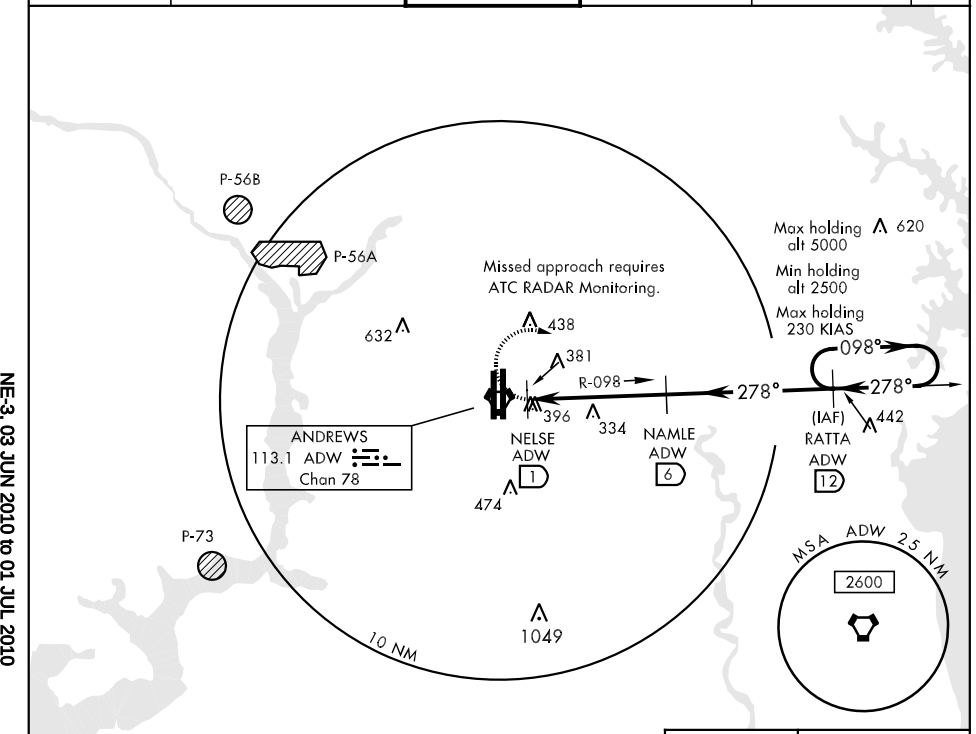
AL-561 [USAF]

ANDREWS AFB (KADW)

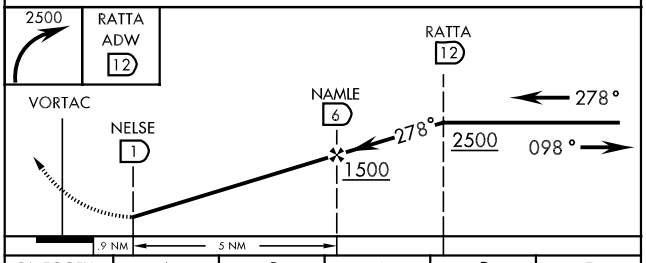
* Circling not authorized west of RWY 1L-19R.

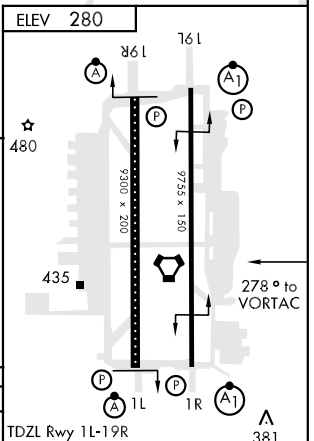
MISSED APPROACH: Climbing right turn to 2500 DIRECT RATTA and hold.

ATIS	POTOMAC APP CON	ANDREWS TOWER	GND CON	CLNC DEL	ASR
113.1 251.05	119.3 335.5	118.4 349.0	121.8 275.8	127.55 285.475	



EMERG SAFE ALT 100 NM 6300

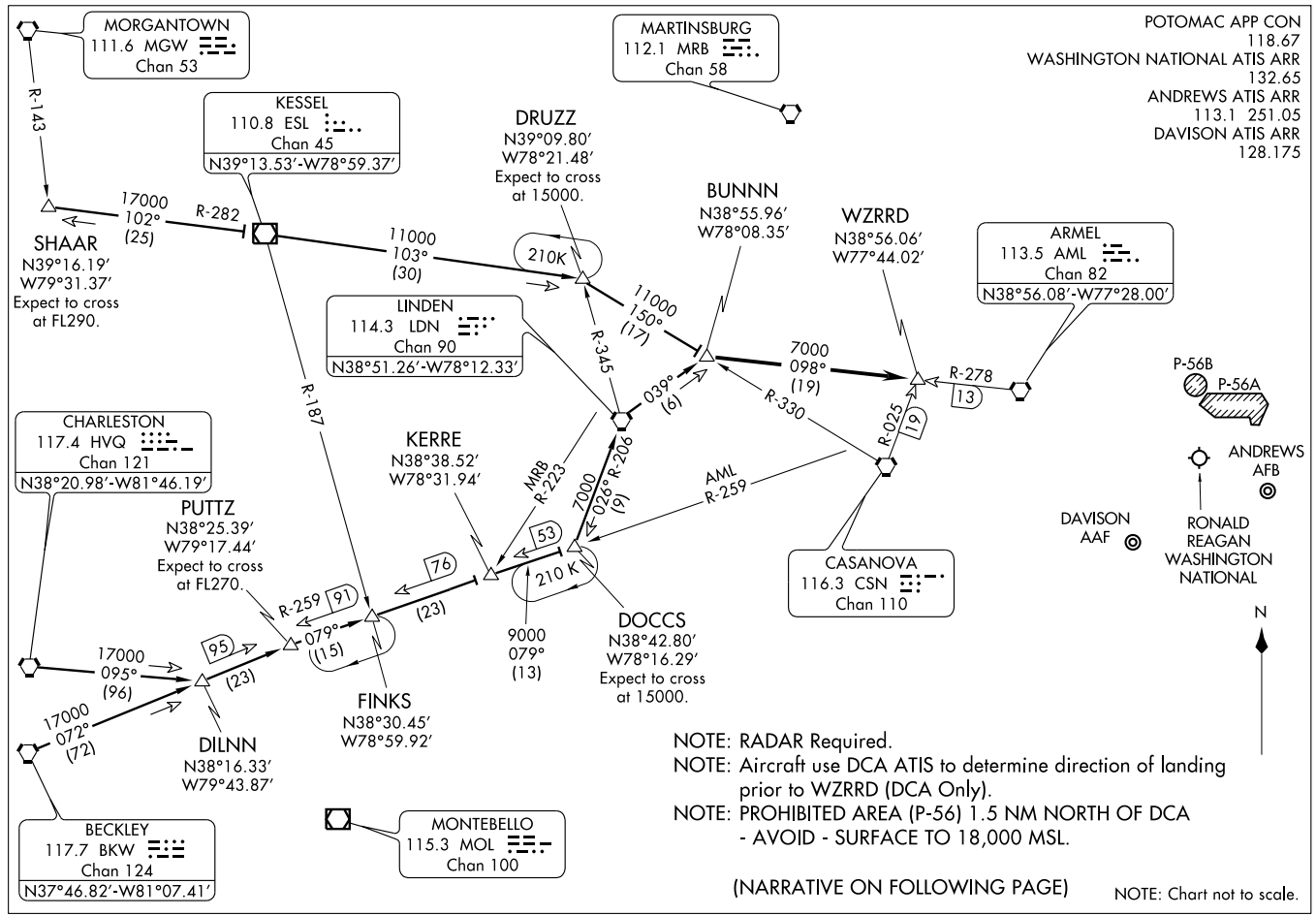




CATEGORY	A	B	C	D	E
CIRCLING *	820-1	540 (600-1)	820-1½	840-2	880-2
			540 (600-1½)	560 (600-2)	600 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

WZRRD TWO ARRIVAL



NOTE: RADAR Required.

NOTE: Aircraft use DCA ATIS to determine direction of landing prior to WZRRD (DCA Only).

NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA - AVOID - SURFACE TO 18,000 MSL.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

WZRRD TWO ARRIVAL

ARRIVAL ROUTE DESCRIPTION

BECKLEY TRANSITION (BKW.WZRRD2): From over BKW VORTAC via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-039 to BUNNN INT, thence

CHARLESTON TRANSITION (HVQ.WZRRD2): From over HVQ VORTAC via HVQ R-095 to DILNN INT, then via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-039 to BUNNN INT, thence

SHAAR TRANSITION (SHAAR.WZRRD2): From over SHAAR INT via ESL R-282 to ESL VOR/DME, then via R-103 to DRUZZ INT, then via CSN R-330 to BUNNN, thence

. . . . from over BUNNN INT via AML R-278 to WZRRD INT. Expect vectors to final approach course after WZRRD INT.

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy ldg	2000
104°	TDZE	409
	Apt Elev	409

GPS RWY 10

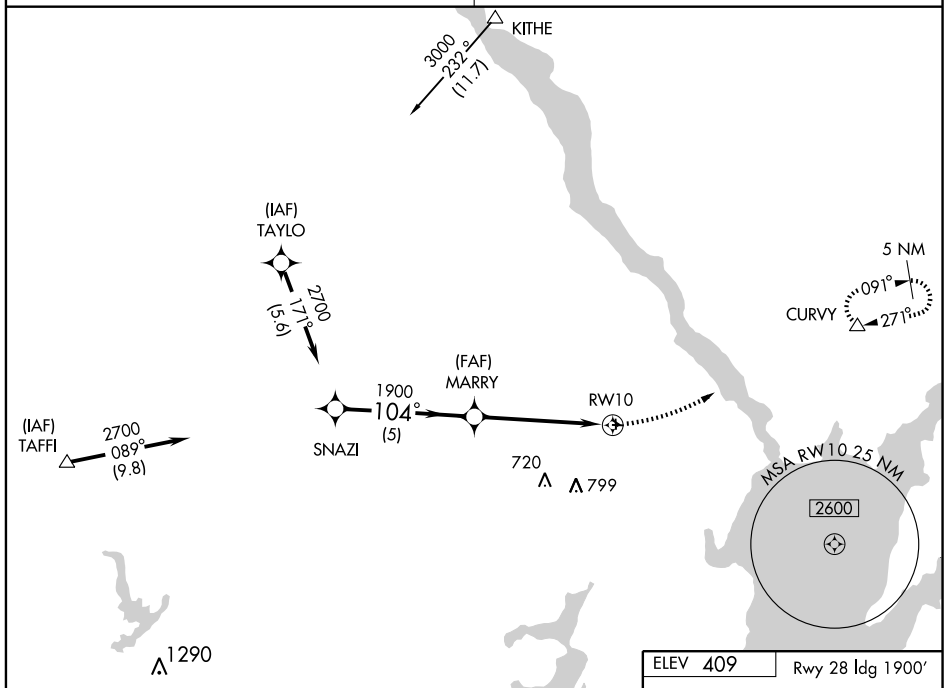
CHURCHVILLE/ HARFORD COUNTY (ØW3)

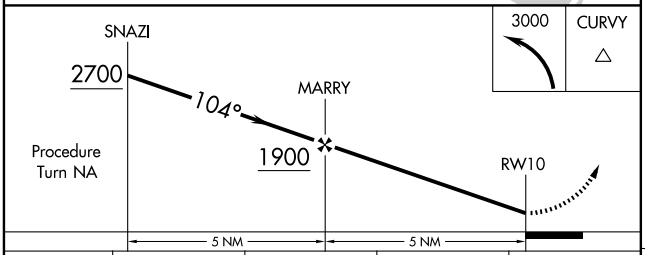
Use Phillips AAF altimeter setting; if not received, use Baltimore/Washington Intl Thurgood Marshall altimeter setting.

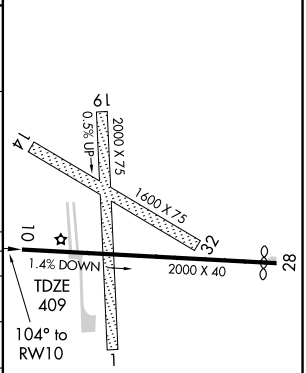
NA

MISSED APPROACH: Climbing left turn to 3000 direct CURVY WP and hold.

POTOMAC APP CON	UNICOM
125.525 291.625	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-10	860-1 451 (500-1)	NA		
CIRCLING	900-1 491 (500-1)	NA		
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL ALTIMETER SETTING MINIMUMS				
S-10	920-1 511 (600-1)	NA		
CIRCLING	940-1 531 (600-1)	NA		

LIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

VOR/DME PPM	APP CRS	Rwy Idg	N/A
108.4	176°	TDZE	N/A
Chan 21		Apt Elev	409

VOR/DME-A

CHURCHVILLE/ HARFORD COUNTY (ØW3)

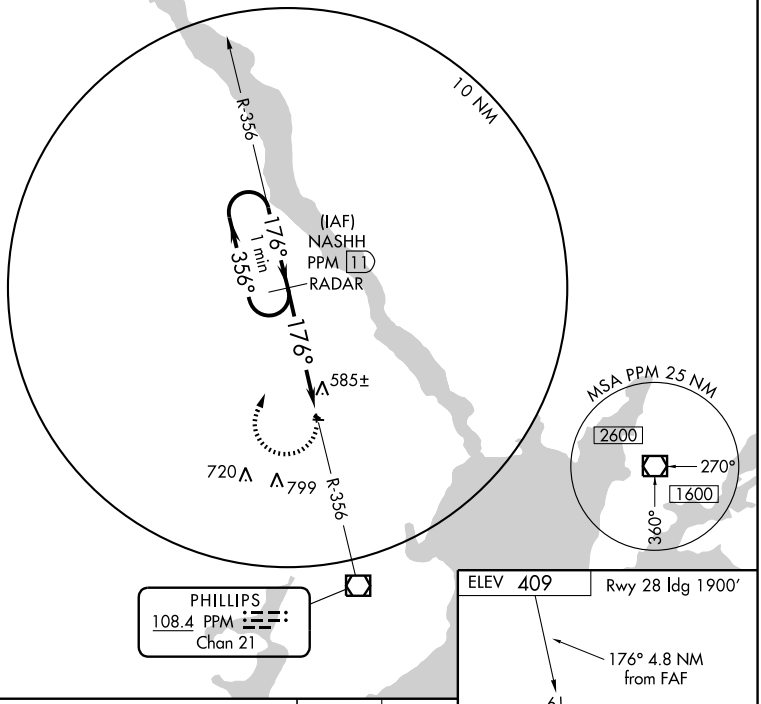
Use Phillips AAF altimeter setting; if not received, use Baltimore/Washington Intl Thurgood Marshall altimeter setting.

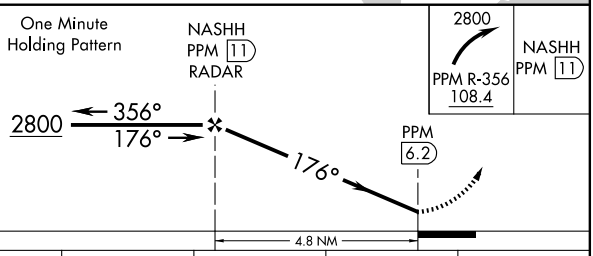
NA

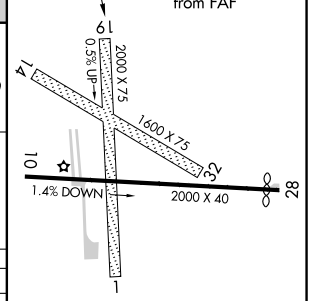
MISSED APPROACH: Climbing right turn to 2800 via PPM R-356 to NASHH 11 DME/RADAR and hold.

POTOMAC APP CON	UNICOM
125.525 291.625	122.8 (CTAF) L

RADAR REQUIRED







LIRL Rwy 10-28 L
REIL Rwys 10 and 28 L

CATEGORY	A	B	C	D
CIRCLING	960-1 551 (600-1)	NA		

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL ALTIMETER SETTING MINIMUMS

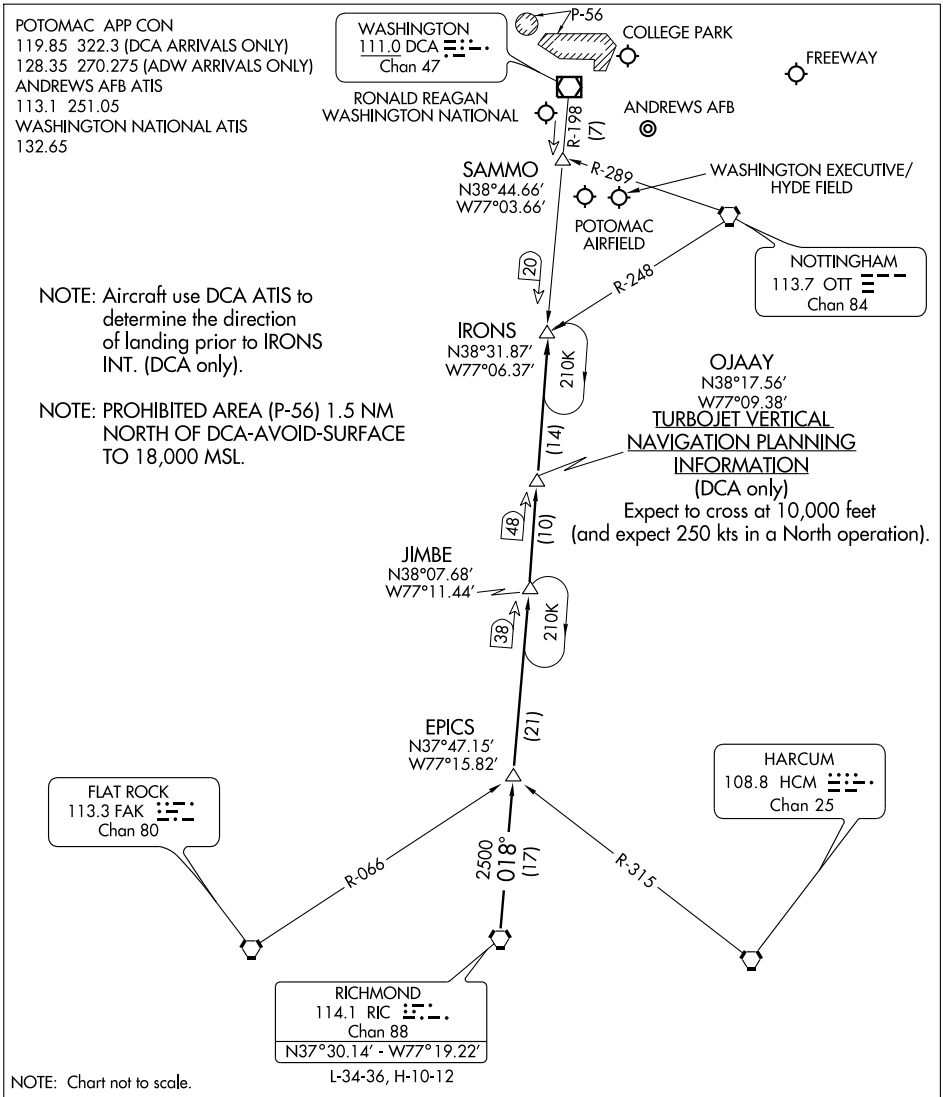
CIRCLING	1000-1 591 (600-1)	NA		

Knots	60	90	120	150	180
Min:Sec					

NE-3. 03 JUN 2010 to 01 JUL 2010

IRONS FOUR ARRIVAL

WASHINGTON, DC



RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence. . . .

. . . .From over IRONS INT:
Ronald Reagan Washington National Airport (DCA only):
LANDING SOUTH: Then via DCA R-198 to SAMMO INT, heading for vectors to the final approach course.
LANDING NORTH: Expect vectors to final approach course.
All other airports: Expect vectors.

APP CRS	Rwy Idg	3000
052°	TDZE	249
	Apt Elev	249

RNAV (GPS) RWY 5

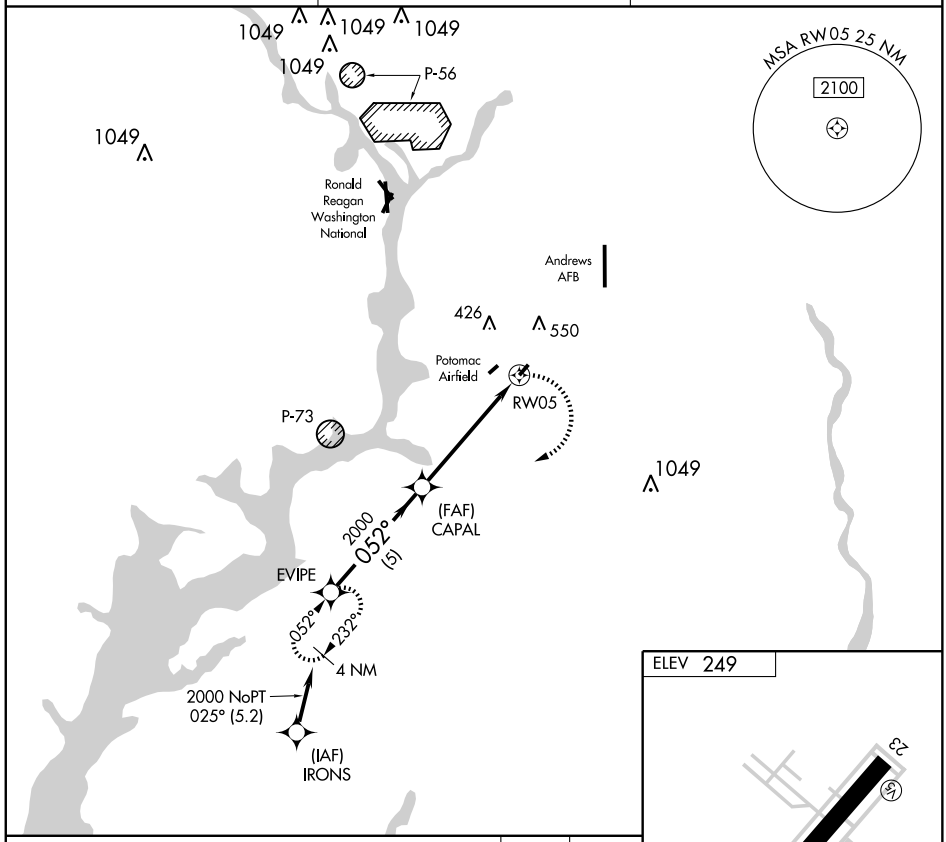
CLINTON/ WASHINGTON EXECUTIVE/HYDE FIELD (W32)

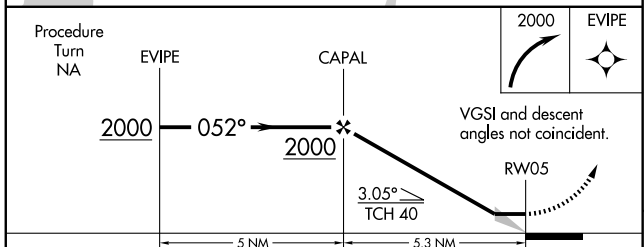
NA

Use Andrews AFB altimeter setting.
Circling NW Rwy 5-23 NA.
DME/DME RNP-0.3 NA.

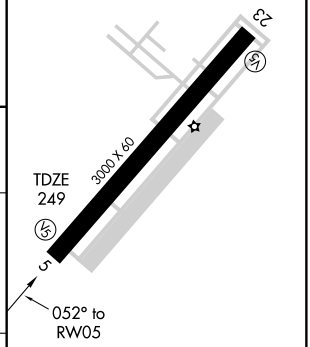
MISSED APPROACH: Climbing right turn to 2000 direct EVIPE WP and hold.

ANDREWS ATIS	POTOMAC APP CON	UNICOM
113.1	124.7 338.2	122.8 (CTAF)





CATEGORY	A	B	C	D
LNAV MDA	660-1 411 (500-1)		NA	
CIRCLING	680-1 431 (500-1)	700-1 451 (500-1)	NA	

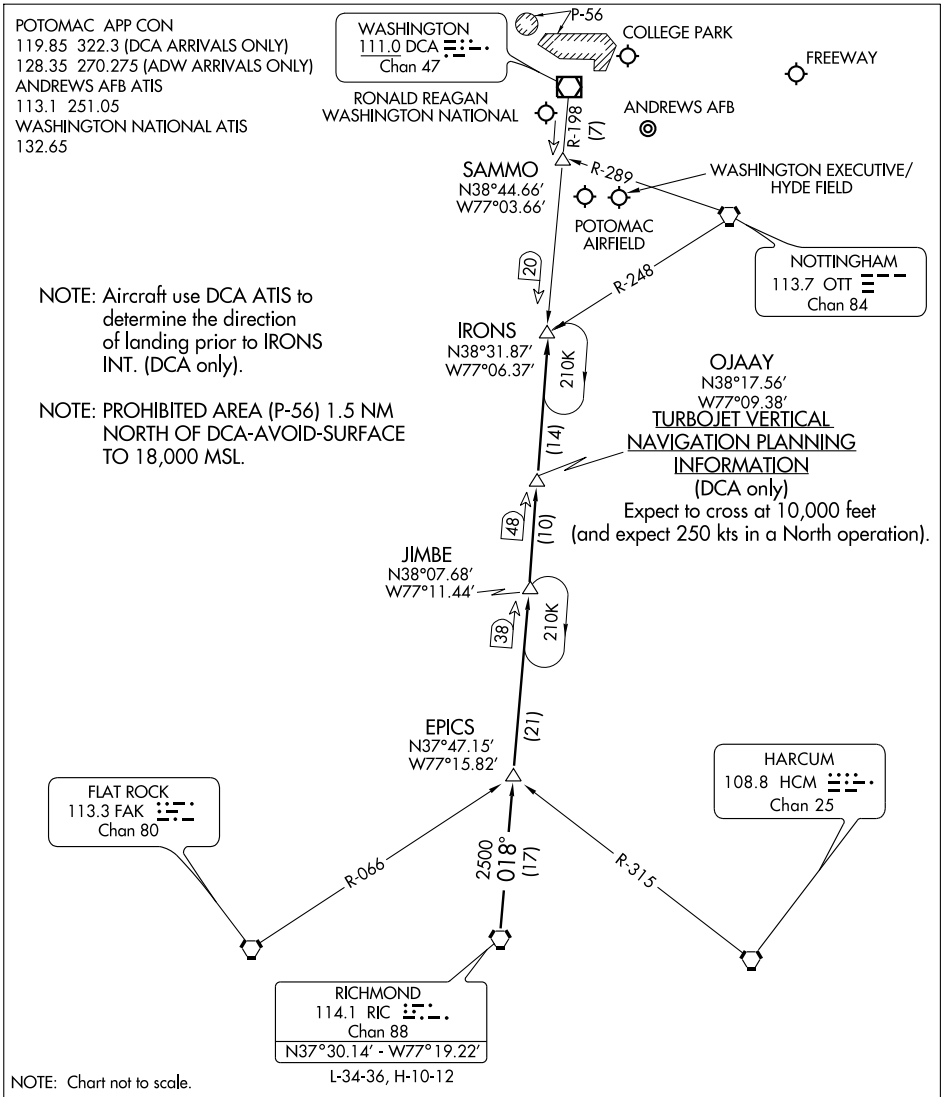


LIRL Rwy 5-23
REIL Rwy 5

NE-3. 03 JUN 2010 to 01 JUL 2010

IRONS FOUR ARRIVAL

WASHINGTON, DC



RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence. . . .

. . . .From over IRONS INT:
Ronald Reagan Washington National Airport (DCA only):
LANDING SOUTH: Then via DCA R-198 to SAMMO INT, heading for vectors to the final approach course.
LANDING NORTH: Expect vectors to final approach course.
All other airports: Expect vectors.

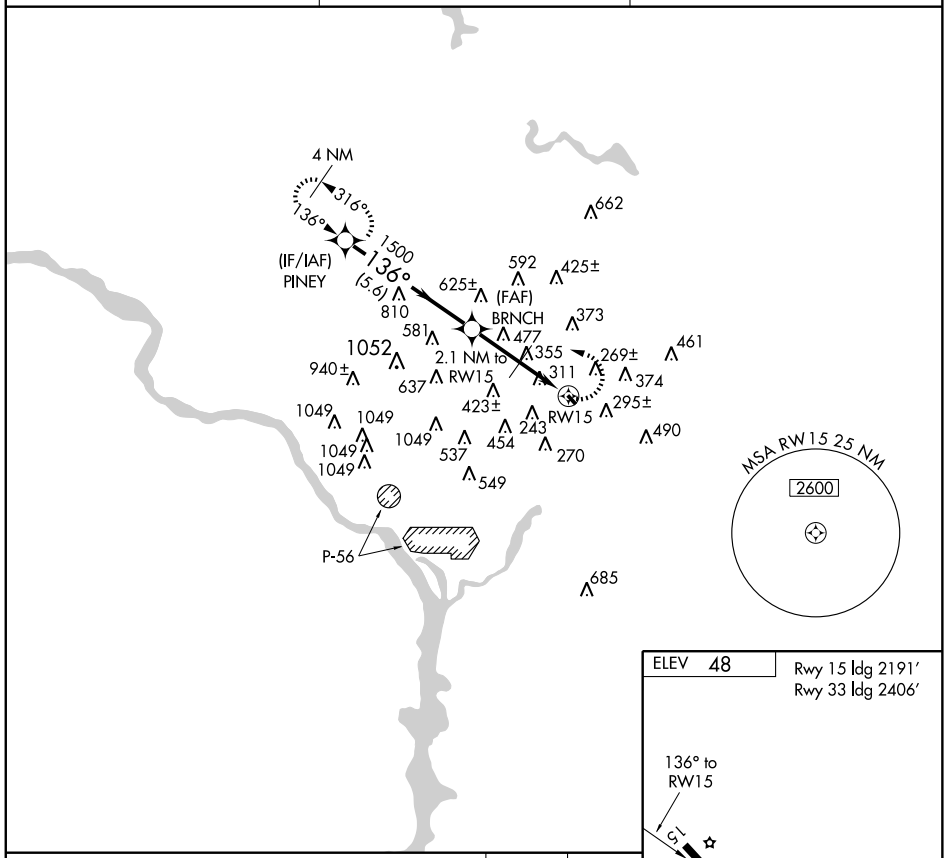
APP CRS	Rwy Idg	2191
136°	TDZE	47
	Apt Elev	48

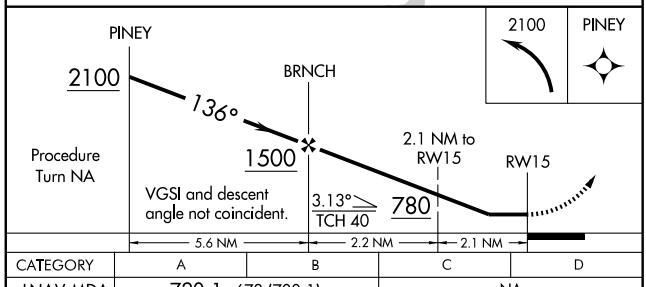
RNAV (GPS) RWY 15
COLLEGE PARK (CGS)

When local altimeter setting not received, use Ronald Reagan Washington National altimeter setting.
DME/DME RNP-0.3 NA.

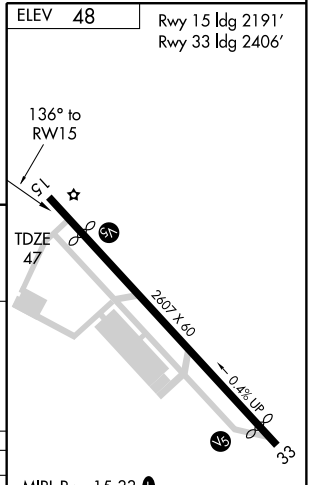
MISSED APPROACH: Climbing left turn to 2100 direct PINEY WP and hold.

AWOS-3	POTOMAC APP CON		UNICOM
121.225	119.85	322.3	122.975 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	720-1 673 (700-1)		NA	
CIRCLING	760-1 712 (800-1)		NA	



MIRL Rwy 15-33 L
REIL Rwys 15 and 33 L

NE-3. 03 JUN 2010 to 01 JUL 2010

CRISFIELD, MARYLAND AL-10239 (FAA)

APP CRS	Rwy ldg	2490
322°	TDZE	4
	Apt Elev	4

RNAV (GPS) RWY 32

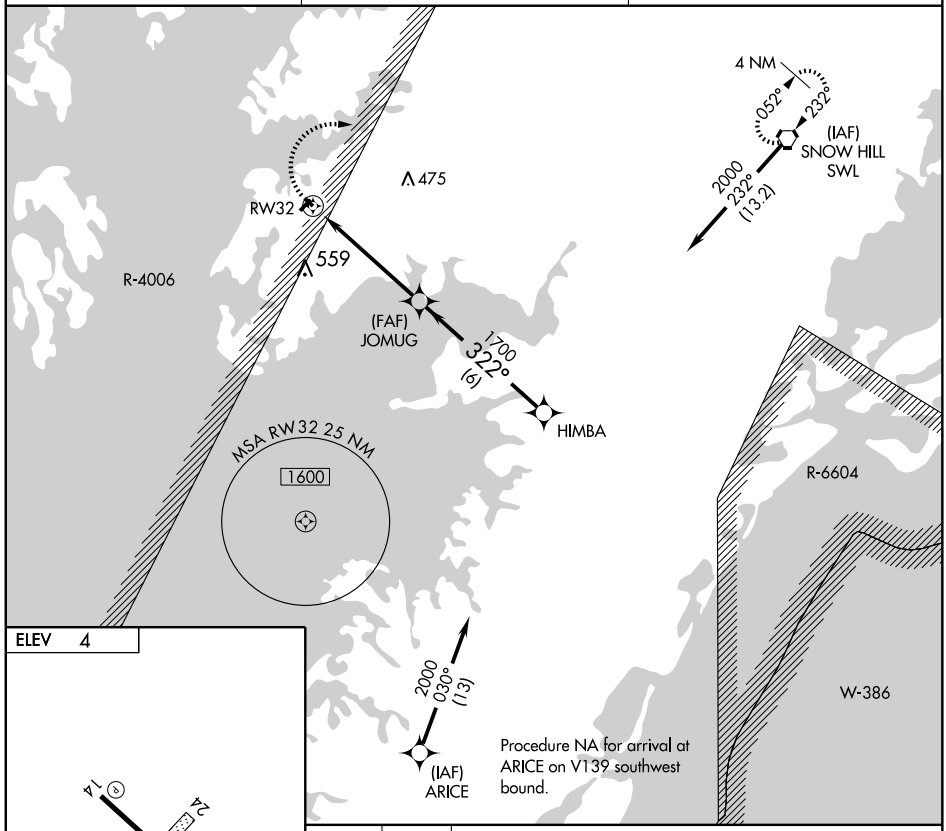
CRISFIELD MUNI (W41)

Use NASA Wallops Flight Facility, VA altimeter setting; if not received, use Salisbury-Ocean City Wicomico Rgnl altimeter setting and increase all MDAs 20 feet. Circling NA Rwy 6-24. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

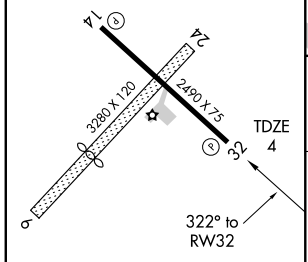
NA

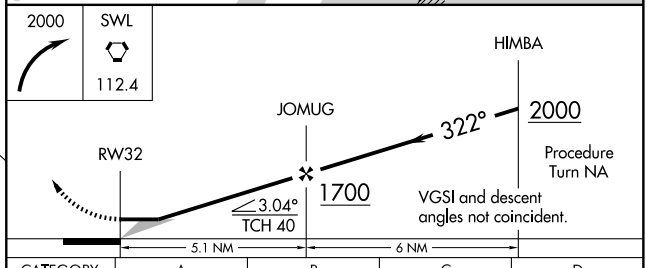
MISSED APPROACH: Climbing right turn to 2000 direct SWL VORTAC and hold.

WALLOPS ASOS	PATUXENT APP CON ★	UNICOM
119.175	127.95 314.0	122.8 (CTAF) L



ELEV 4





CATEGORY	A	B	C	D
LNAV MDA	500-1 496 (500-1)		NA	
CIRCLING	520-1 516 (600-1)		NA	

MIRL Rwy 14-32 L

REIL Rwys 14 and 32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC SWL 112.4 Chan 71	APP CRS 271°	Rwy ldg N/A TDZE N/A Apt Elev 4

VOR/DME-A

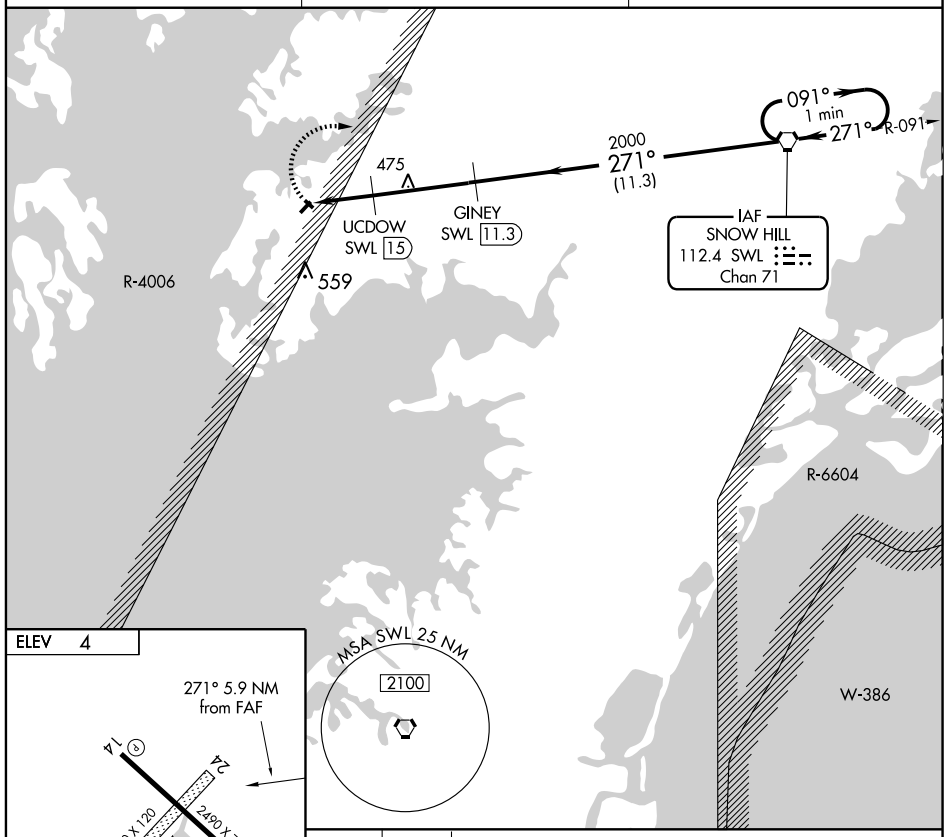
CRISFIELD MUNI (W41)

T
A NA

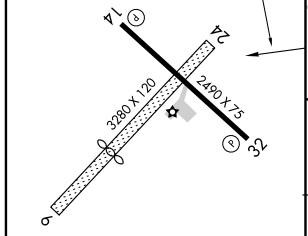
Use NASA Wallops Flight Facility, VA altimeter setting; if not received, use Salisbury-Ocean City Wicomico Rgnl altimeter setting and increase all MDAs 20 feet. Circling NA Rwy 6-24.

MISSED APPROACH: Climbing right turn to 2000 direct SWL VORTAC and hold.

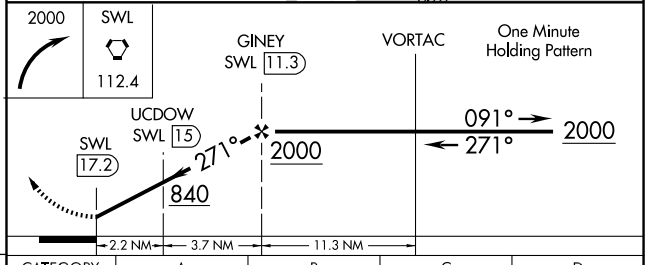
WALLOPS ASOS	PATUXENT APP CON ★	UNICOM
119.175	127.95 314.0	122.8 (CTAF) L



ELEV 4



MIRL Rwy 14-32 L
REIL Rwys 14 and 32 L



FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

CATEGORY	A	B	C	D
CIRCLING	780-1 776 (800-1)	780-1¼ 776 (800-1¼)	NA	

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-CBE	APP CRS	Rwy Idg	N/A
110.5	224°	TDZE	N/A
Chan 42		Apt Elev	775

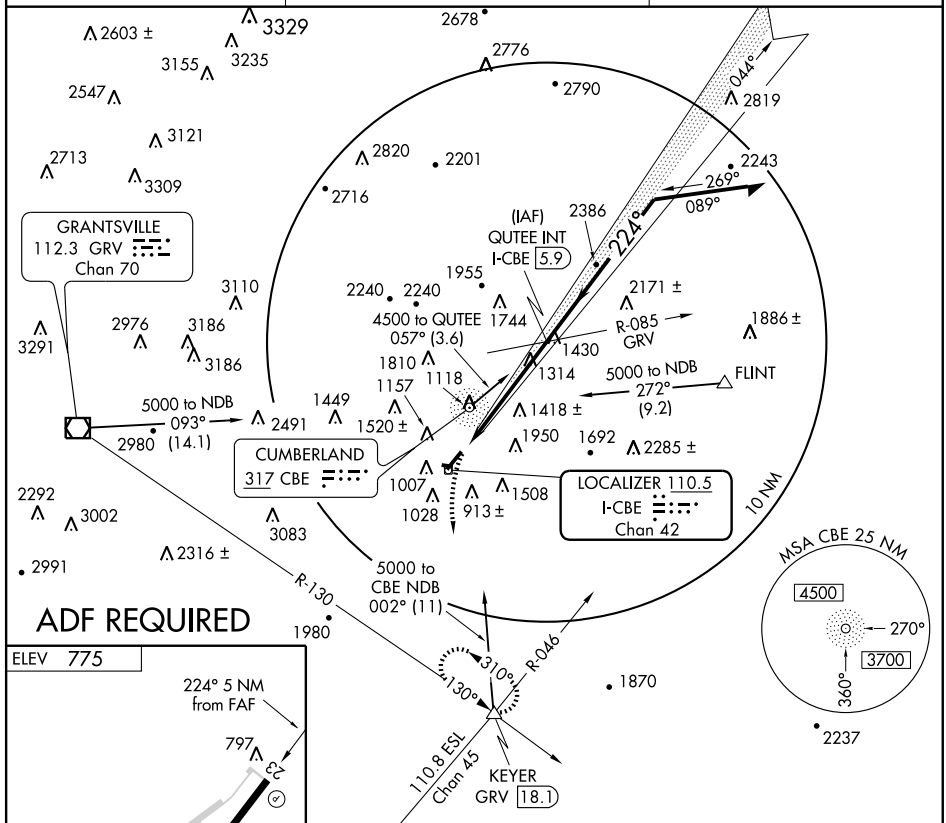
LOC-A

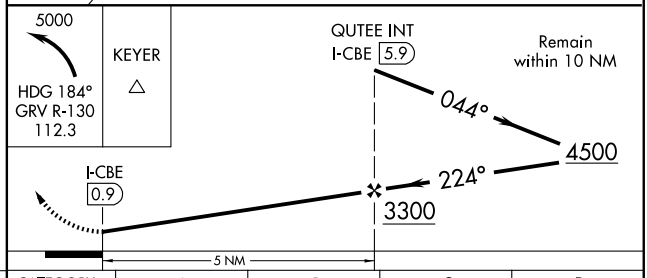
CUMBERLAND / GREATER CUMBERLAND RGNL (CBE)

▼ NA Circling not authorized northwest of Rwy 5-23

MISSED APPROACH: Climbing left turn to 5000 via heading 184° and GRV R-130 to KEYER Int and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
128.625	124.4 327.1	122.8 (CTAF) L





FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

CATEGORY	A	B	C	D
CIRCLING	2060-1¼ 1285 (1300-1¼)	2060-1½ 1285 (1300-1½)	2060-3 1285 (1300-3)	2340-3 1565 (1600-3)

NE-3, 03 JUN 2010 to 01 JUL 2010

CUMBERLAND, MARYLAND

AL-5263 (FAA)

LOC/DME I-CBE	APP CRS	Rwy Idg	5048
110.5	224°	TDZE	775
Chan 42		Apt Elev	775

LOC/DME RWY 23

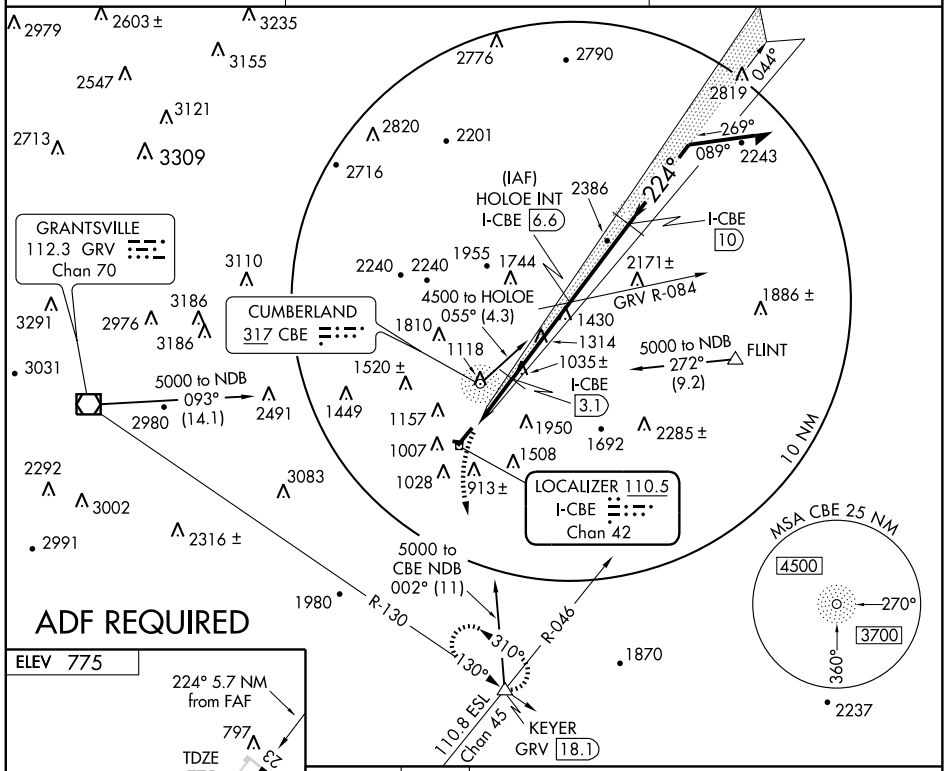
CUMBERLAND / GREATER CUMBERLAND RGNL (CBE)

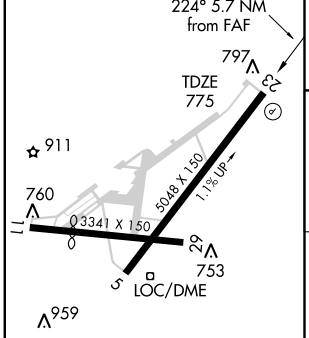
Circling not authorized northwest of Rwy 5-23

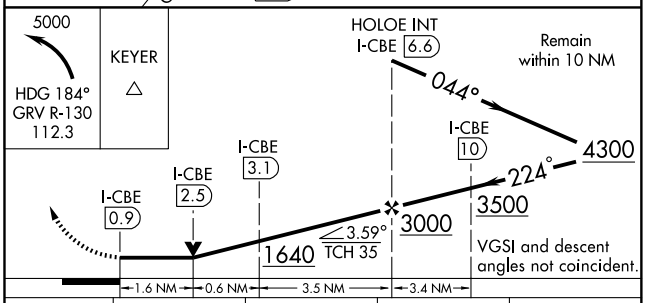
NA

MISSED APPROACH: Climbing left turn to 5000 via heading 184° and GRV R-130 to KEYER Int and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
128.625	124.4 327.1	122.8 (CTAF) L







CATEGORY	A	B	C	D
S-23	1400-1	625 (700-1)	1400-1¾ 625 (700-1¾)	1400-2 625 (700-2)
CIRCLING	2060-1¼ 1285 (1300-1¼)	2060-1½ 1285 (1300-1½)	2060-3 1285 (1300-3)	2340-3 1565 (1600-3)

REIL Rwy 23 L
LIRL Rwy 11-29 L
HIRL Rwy 5-23 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5048
031°	TDZE	747
	Apt Elev	775

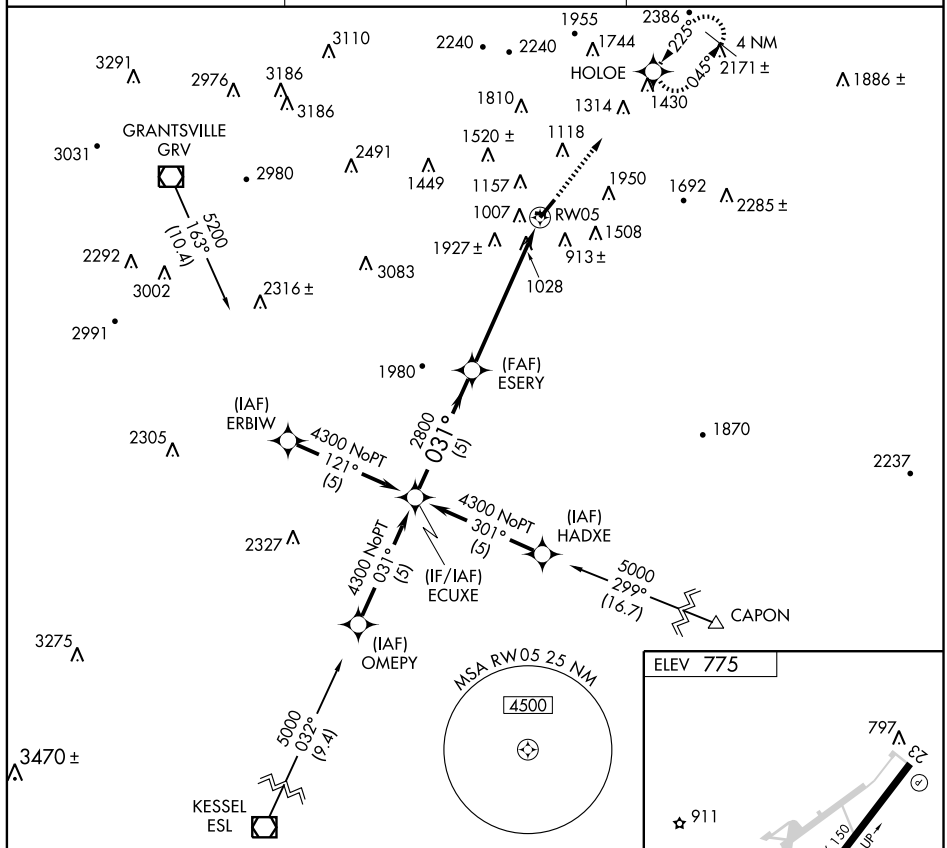
RNAV (GPS) RWY 5

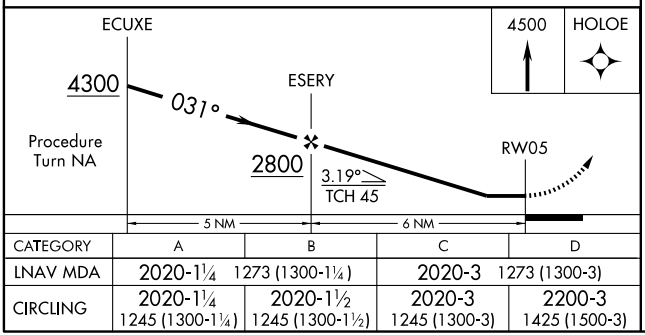
CUMBERLAND / GREATER CUMBERLAND RGNL (CBE)

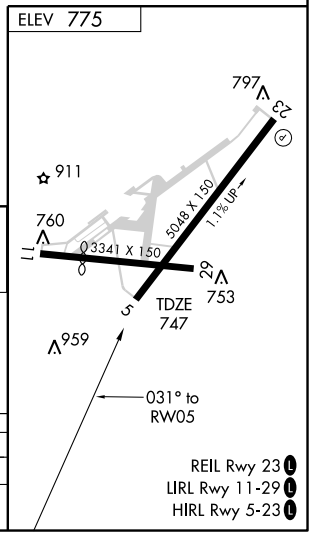
Circling not authorized NW of Rwy 5-23.
GPS or RNP-0.3 Required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4500 direct HOLOE WP and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
128.625	124.4 327.1	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	2020-1¼ 1273 (1300-1¼)		2020-3 1273 (1300-3)	
CIRCLING	2020-1¼ 1245 (1300-1¼)	2020-1½ 1245 (1300-1½)	2020-3 1245 (1300-3)	2200-3 1425 (1500-3)

REIL Rwy 23 L
LIRL Rwy 11-29 L
HIRL Rwy 5-23 L

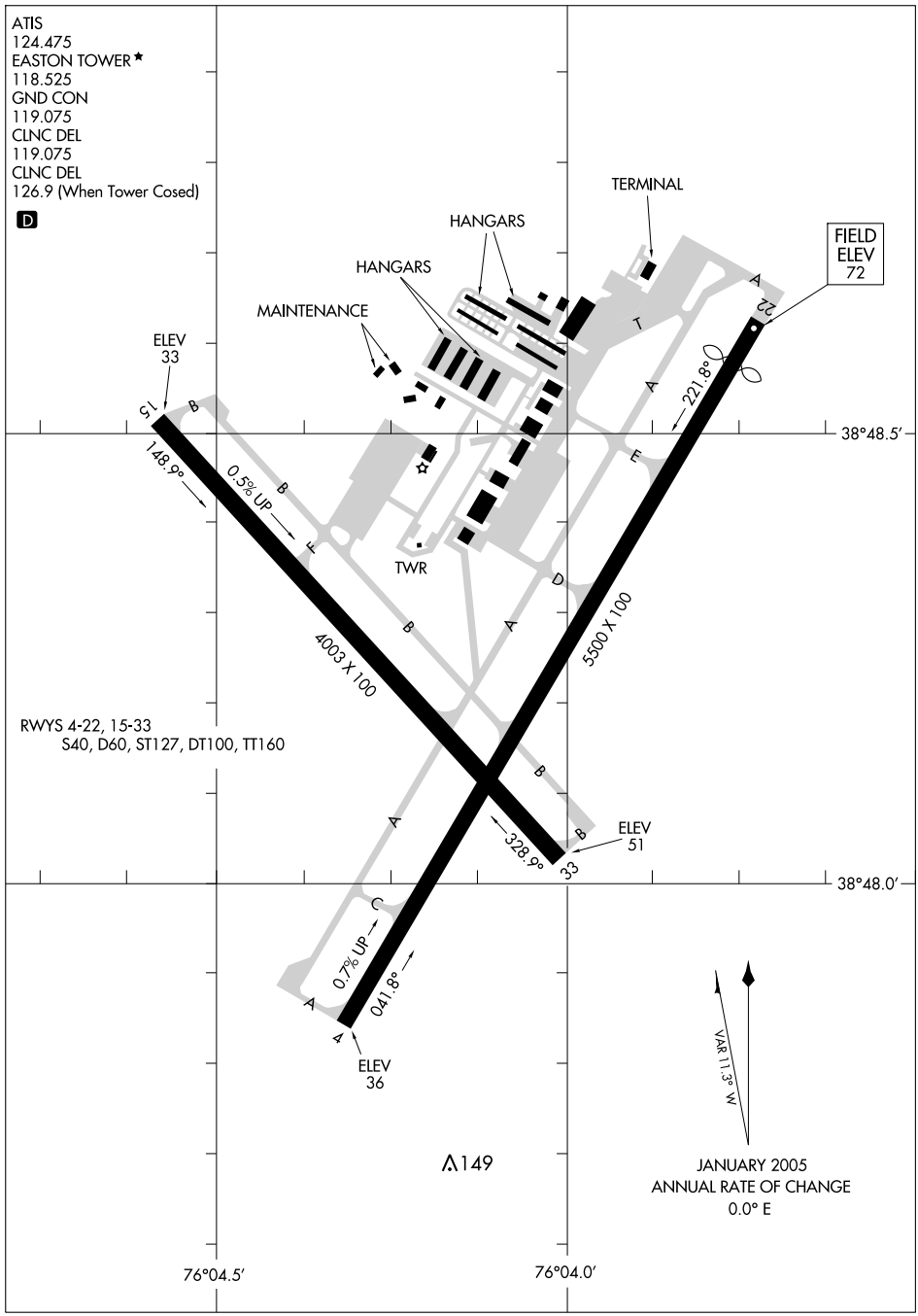
NE-3, 03 JUN 2010 to 01 JUL 2010

09127

AIRPORT DIAGRAM

AL-5596 (FAA)

EASTON/NEWNAM FIELD (ESN)
EASTON, MARYLAND



NE-3, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-FGH	APP CRS	Rwy Idg	4775
109.35	041°	TDZE	58
Chan 30 (Y)		Apt Elev	72

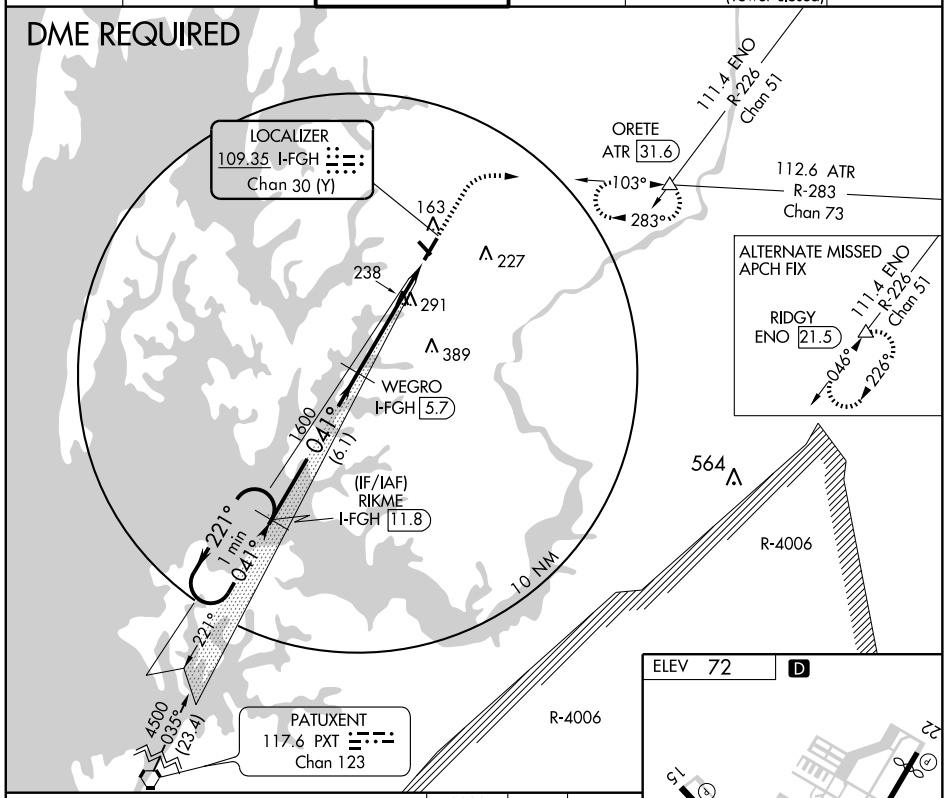
ILS or LOC/DME RWY 4

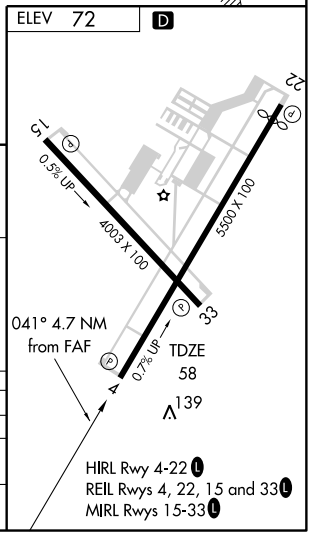
EASTON/NEWNAM FIELD (ESN)

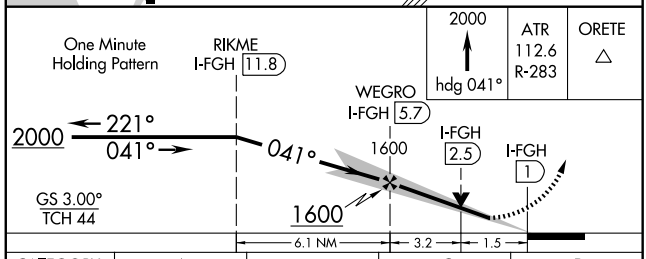
T If local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase DA to 358 feet and all MDAs 100 feet.
A VDP NA when using Baltimore-Washington Intl Thurgood Marshall altimeter setting.

MISSED APPROACH: Climb to 2000 via heading 041° and ATR VOR/DME R-283 to ORETE INT/ATR 31.6 DME and hold.

ATIS	POTOMAC APP CON	EASTON TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	124.55 317.425	118.525 (CTAF) L	119.075	119.075 126.9 (Tower closed)	122.95







CATEGORY	A	B	C	D
S-ILS 4	265-¾ 207 (200-¾)			
S-LOC 4	540-1 482 (500-1)		540-1¼ 482 (500-1¼)	540-1½ 482 (500-1½)
CIRCLING	540-1 468 (500-1)		660-1½ 588 (600-1½)	660-2 588 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	4775
CH 86905	040°	TDZE	58
W04A		Apt Elev	72

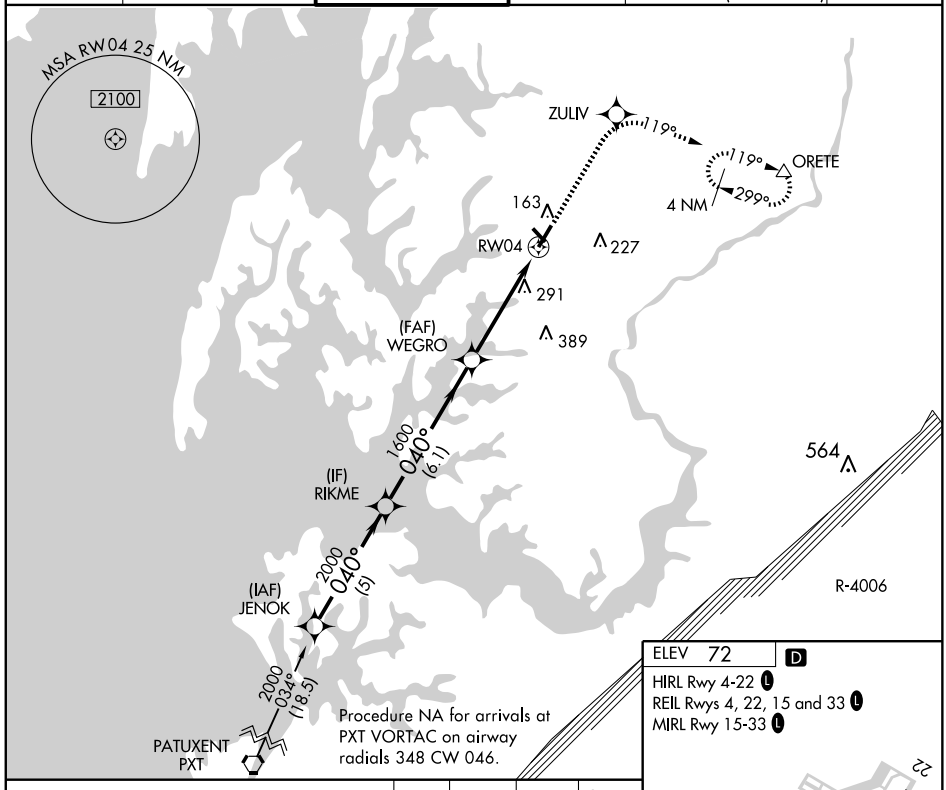
RNAV (GPS) RWY 4

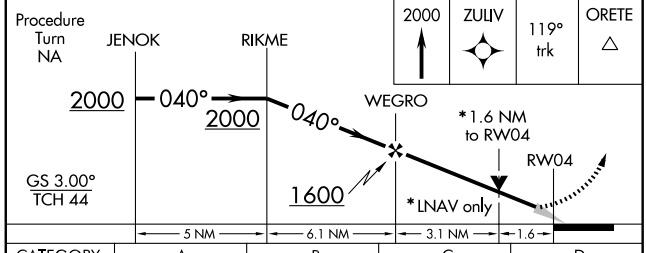
EASTON/NEWNAM FIELD (ESN)

DME/DME RNP-0.3 NA. If local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase DA to 358 feet and all MDAs 100 feet. VDP NA when using Baltimore Washington Intl Thurgood Marshall altimeter setting.

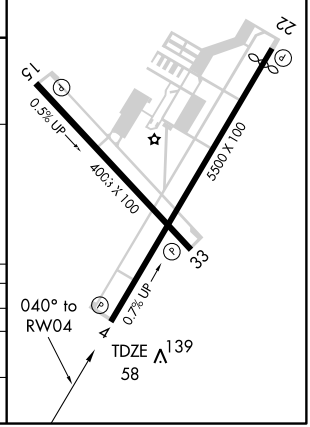
MISSED APPROACH: Climb to 2000 direct ZULIV and via 119° track to ORETE and hold.

ATIS	POTOMAC APP CON	EASTON TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	124.55 317.425	118.525 (CTAF) L	119.075	119.075 126.9 (Tower closed)	122.95





CATEGORY	A	B	C	D
LPV DA	265-¾		207 (200-¾)	
LNAV MDA	600-1 542 (600-1)		600-1½ 542 (600-1½)	600-1¾ 542 (600-1¾)
CIRCLING	600-1 528 (600-1)		660-1½ 588 (600-1½)	660-2 588 (600-2)



NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4003
148°	TDZE	47
	Apt Elev	72

RNAV (GPS) RWY 15
EASTON/NEWNAM FIELD (ESN)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase all MDAs 100 feet, LNAV Cats C and D visibility ¼ mile, Circling Cat C visibility ½ mile and Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 2000 direct TUKIE and via 052° track to ORETE and hold.

ATIS	POTOMAC APP CON	EASTON TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	124.55 317.425	118.525 (CTAF) L	119.075	119.075 126.9 (Tower closed)	122.95

RADAR REQUIRED

654

(IF) HIVAR

1600 147° (6.1)

(FAF) CERAV

148°

163± 163

RW15

227

119° ORETE 299° 4 NM

291 389

052°

TUKIE

R-4006

MSA RW15 25 NM

2100

VGSI and descent angles not coincident.

2000 | TUKIE | 052° trk | ORETE

HIVAR 2000 147° CERAV 1600 3.04° TCH 45 148° RW15

6.1 NM 4.7 NM

ELEV 72 D

148° to RW15

TDZE 47

0.5% UP 4003 X 100

5500 X 100

0.7% UP

CATEGORY	A	B	C	D
LNAV MDA	420-1 373 (400-1)			420-1¼ 373 (400-1¼)
CIRCLING	480-1 408 (500-1)	540-1 468 (500-1)	660-1½ 588 (600-1½)	660-2 588 (600-2)

HIRL Rwy 4-22 L
REIL Rwys 4, 22, 15 and 33 L
MIRL Rwys 15-33 L

139

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 40207 W22A	APP CRS 221°	Rwy Idg 5175 TDZE 72 Apt Elev 72

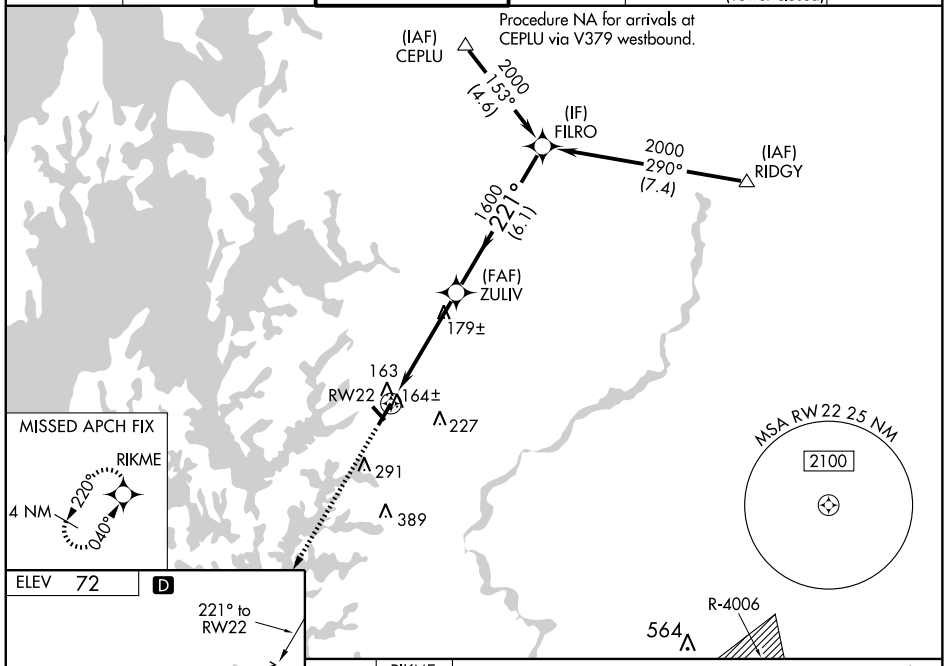
RNAV (GPS) RWY 22

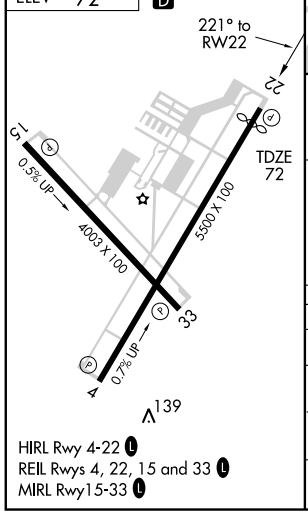
EASTON/NEWNAM FIELD (ESN)

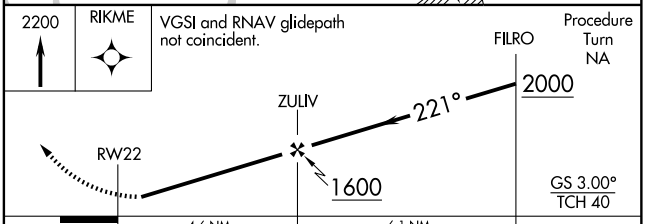
Baro-VNAV NA when using Baltimore-Washington Intl Thurgood Marshall altimeter setting. When local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase all DA 93 feet, all MDA 100 feet, LPV and LNAV/VNAV all Cats visibility ¼ mile, LNAV Cats C and D visibility ¼ mile and Circling Cats C visibility ½ mile and Cat D visibility ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 2000 direct RIKME and hold.

ATIS	POTOMAC APP CON	EASTON TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	124.55 317.425	118.525 (CTAF) L	119.075	119.075 126.9 (Tower closed)	122.95







CATEGORY	A	B	C	D
LPV DA	352-1 280 (300-1)			
LNAV/VNAV DA	434-1¼ 362 (400-1¼)			
LNAV MDA	440-1 368 (400-1)			440-1¼ 368 (400-1¼)
CIRCLING	480-1 408 (500-1)	540-1 468 (500-1)	660-1½ 588 (600-1½)	660-2 588 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	4003
328°	TDZE	51
	Apt Elev	72

RNAV (GPS) RWY 33

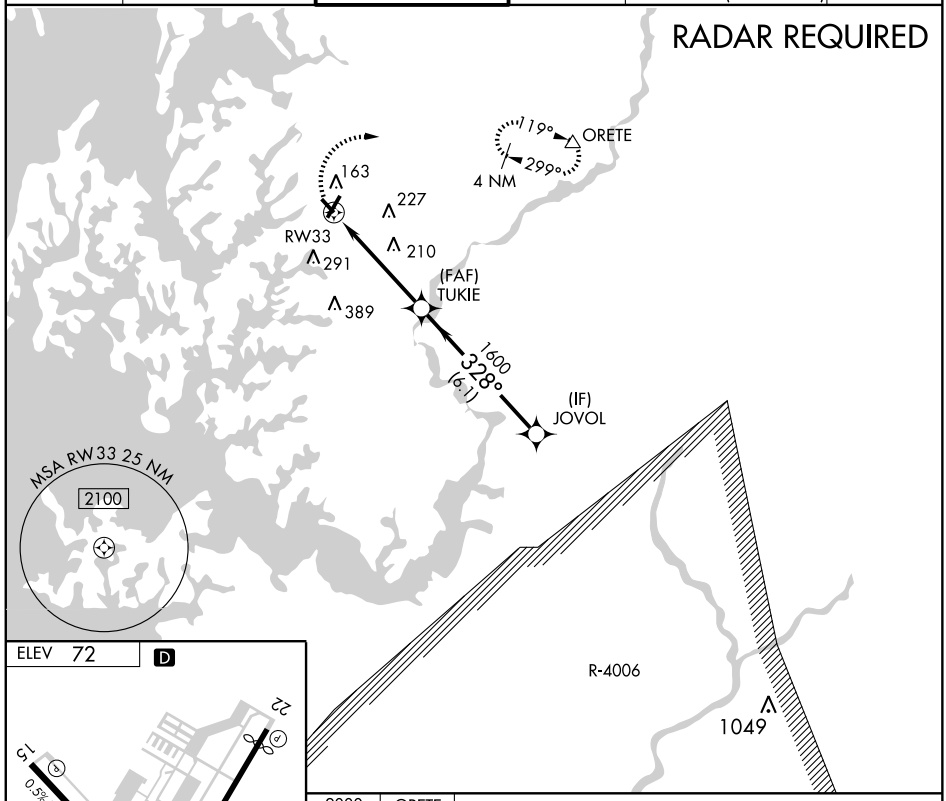
EASTON/NEWNAM FIELD (ESN)

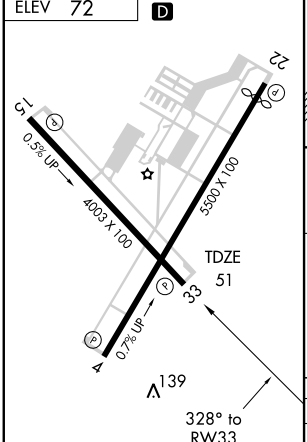
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase all MDA 100 feet, LNAV Cat C and D visibility ¼ mile, Circling Cat C visibility ½ mile and Cat D visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 2000 direct ORETE and hold.

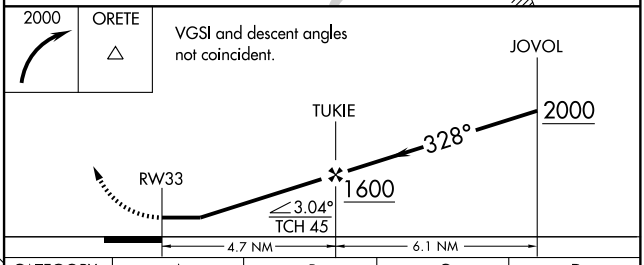
ATIS	POTOMAC APP CON	EASTON TOWER ★	GND CON	CLNC DEL	UNICOM
124.475	124.55 317.425	118.525 (CTAF) L	119.075	119.075 126.9 (Tower closed)	122.95

RADAR REQUIRED





HIRL Rwy 4-22 L
REIL Rwys 4, 22, 15 and 33 L
MIRL Rwy 15-33 L



CATEGORY	A	B	C	D
LNAV MDA	520-1 469 (500-1)		520-1¼ 469 (500-1¼)	520-1½ 469 (500-1½)
CIRCLING	520-1 448 (500-1)	540-1 468 (500-1)	660-1½ 588 (600-1½)	660-2 588 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

ELKTON, MARYLAND AL-9807 (FAA)

APP CRS	Rwy Idg	2699
127°	TDZE	106
	Apt Elev	106

RNAV (GPS) RWY 13

ELKTON/CECIL COUNTY (58M)

Use Summit, Middletown, DE altimeter setting; if not received, use New Castle County, Wilmington, DE altimeter setting and increase all MDAs 20 feet.
NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Procedure NA at night.

MISSED APPROACH: Climb to 2000 direct WESIL WP and via 139° track to BOHEM WP and hold.

SUMMIT AWOS-3	PHILADELPHIA APP CON	UNICOM	
132.325	118.35 323.1	122.8 (CTAF)	123.0 L

Procedure NA for arrival at VINNY Int via V3-408 westbound.

Procedure NA for arrival at GLOMO WP via V3-408 eastbound, V403-405 northeast bound.

952
(IAF)
GLOMO
2200 NoPT
215°
(13.6)
VINNY
2500
116°
(24.6)
(IF/IAF)
FEDIN
127°
307°
4NM
1800
127°
(6)
658
840
519
(FAF)
CELUP
405
647
RW13
580
WESIL
139°
(5)
BOHEM
320°
140°
4NM
R-4001A
MSA RW13 25 NM
2400

ELEV 106
127° to RW13
TDZE 106
2987 X 70
1.5% UP

4 NM Holding Pattern
FEDIN
2200
307°
127°
CELUP
127°
1800
RW13
3.00°
TCH 40
6 NM
5.2 NM

2000	WESIL	BOHEM
	TRK 139°	

CATEGORY	A	B	C	D
LNAV MDA	980-1¼	874 (900-1¼)	NA	
CIRCLING	980-1¼	874 (900-1¼)	NA	

REIL Rwys 13 and 31 L
MIRL Rwy 13-31 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	2385
308°	TDZE	106
	Apt Elev	106

RNAV (GPS) RWY 31

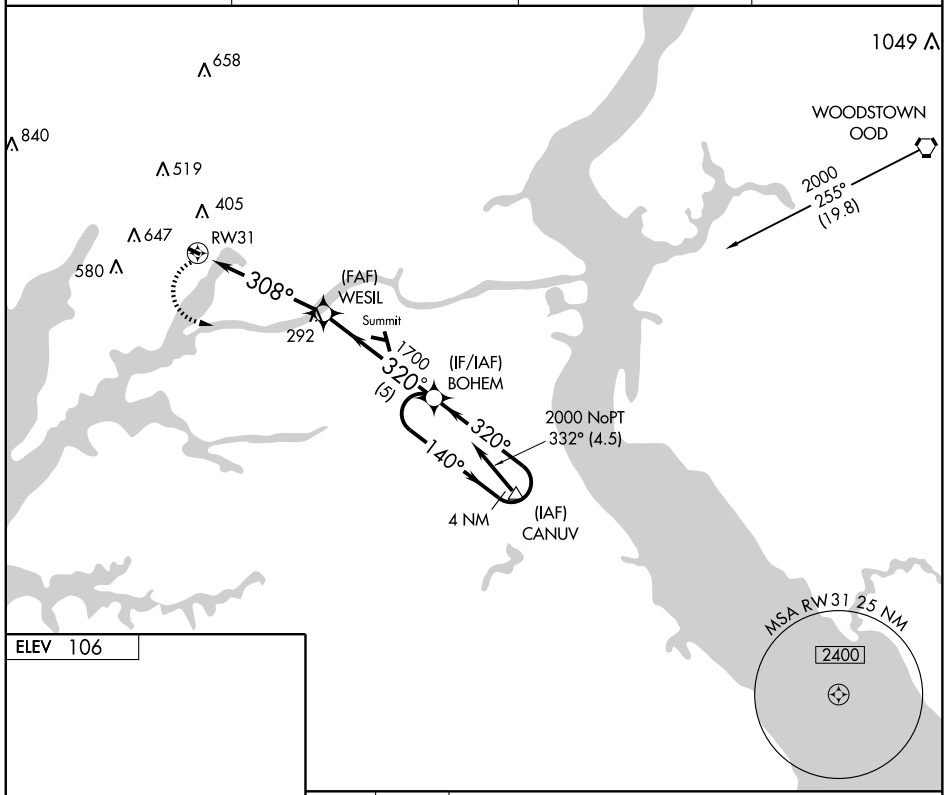
ELKTON/ CECIL COUNTY (58M)

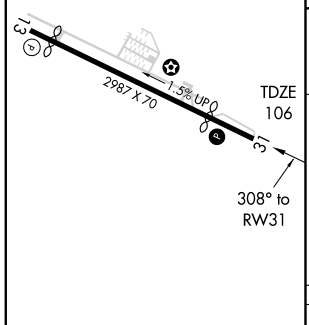
GPS or RNP -0.3 required. DME/DME RNP -0.3 NA.
Use Summit, Middletown, DE altimeter setting; if not received, use New Castle, Wilmington, DE altimeter setting and raise all MDAs 20 feet.
Circling NA at night.

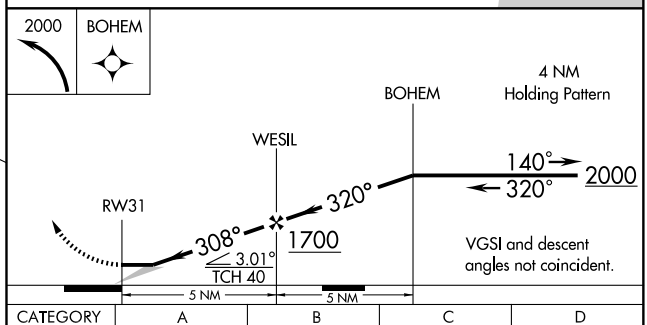
NA

MISSED APPROACH: Climbing left turn to 2000 direct BOHEM WP and hold.

SUMMIT AWOS-3	PHILADELPHIA APP CON	UNICOM	
132.325	118.35 323.1	122.8 (CTAF)	123.0 L







CATEGORY	A	B	C	D
LNAV MDA	600-1 494 (500-1)		NA	
CIRCLING	820-1 714 (800-1)		NA	

REIL Rwys 13 and 31 L
MIRL Rwy 13-31 L

NE-3. 03 JUN 2010 to 01 JUL 2010

ELKTON, MARYLAND

AL-9807 (FAA)

VORTAC ENO	APP CRS	Rwy Idg	2385
111.4	331°	TDZE	106
Chan 51		Apt Elev	106

VOR/DME RWY 31

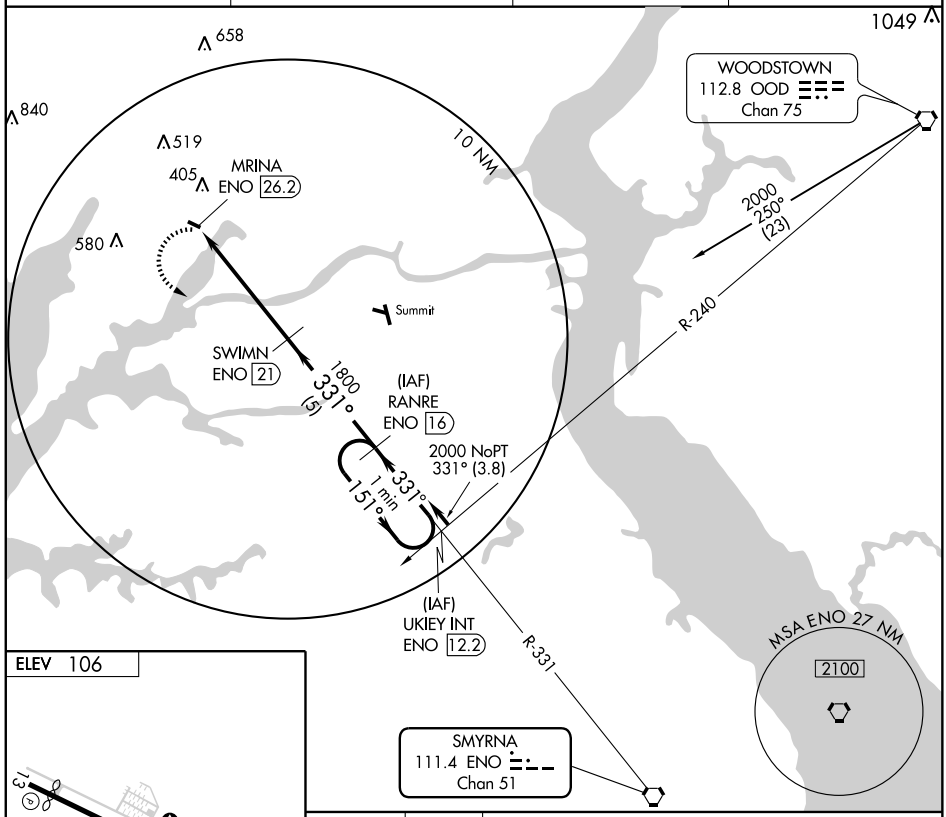
ELKTON/ CECIL COUNTY (58M)

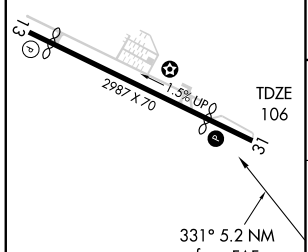
T
NA

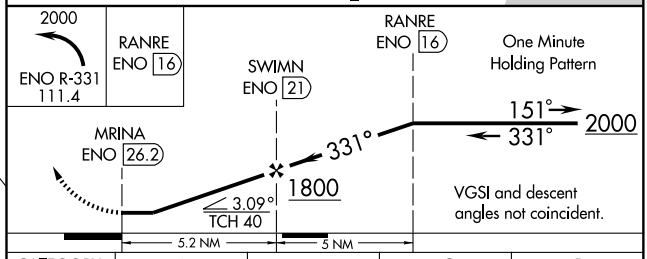
Use Summit, Middletown, DE altimeter setting; if not received, use New Castle, Wilmington, DE altimeter setting and raise all MDAs 20 feet. Circling NA at night.

MISSED APPROACH: Climbing left turn to 2000 via ENO R-331 to RANRE/ENO VORTAC 16 DME and hold.

SUMMIT AWOS-3	PHILADELPHIA APP CON	UNICOM	123.0 L
132.325	118.35 323.1	122.8 (CTAF)	







CATEGORY	A	B	C	D
S-31	720-1 614 (700-1)	720-1¼ 614 (700-1¼)	NA	
CIRCLING	820-1 714 (800-1)	820-1¼ 714 (800-1¼)	NA	

REIL Rwys 13 and 31 L
MIRL Rwy 13-31 L

NE-3. 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 10

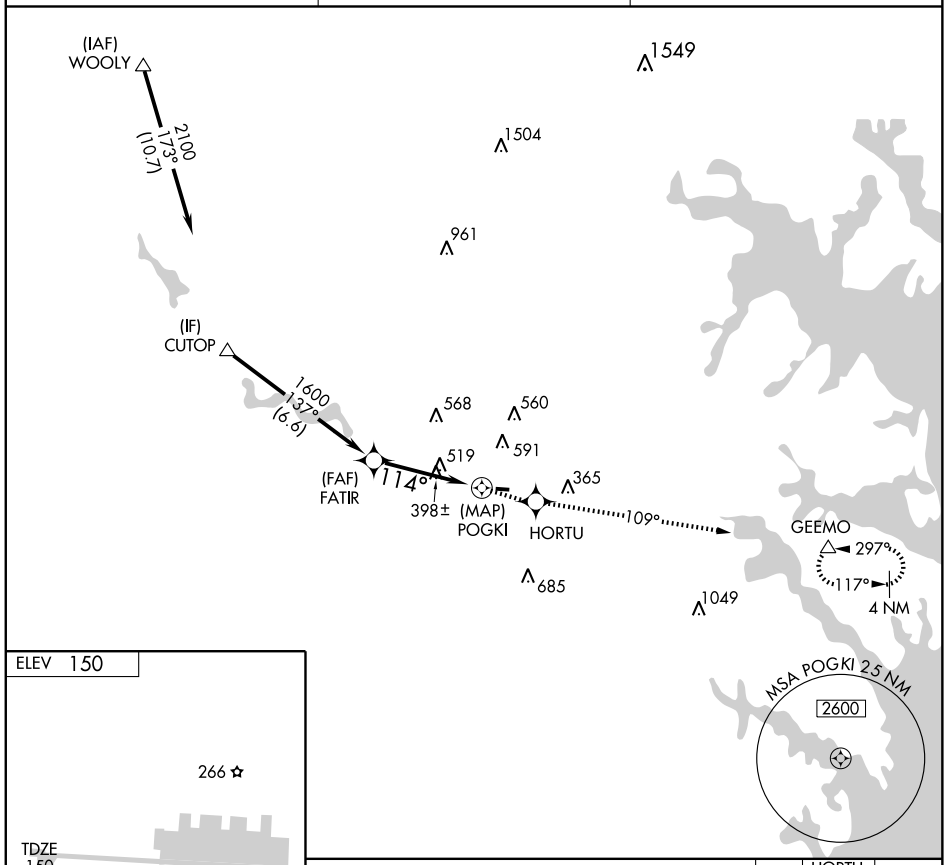
FORT MEADE(ODENTON)/ TIPTON (FME)

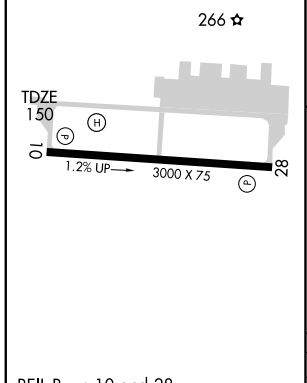
APP CRS	Rwy Idg	3000
114°	TDZE	150
	Apt Elev	150

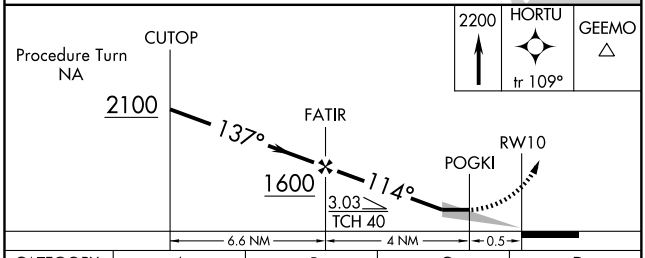
DME/DME RNP-0.3 NA.
Use Baltimore/Washington Intl Thurgood Marshall altimeter setting.

MISSED APPROACH: Climb to 2200 direct HORTU and via 109° track to GEEMO and hold.

AWOS-3	POTOMAC APP CON	UNICOM
123.925	119.7 290.475	123.05 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	800-1 650 (700-1)		NA	
CIRCLING	840-1 690 (700-1)		NA	

REIL Rwys 10 and 28
MIRL Rwy 10-28 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	3000
284°	TDZE	150
	Apt Elev	150

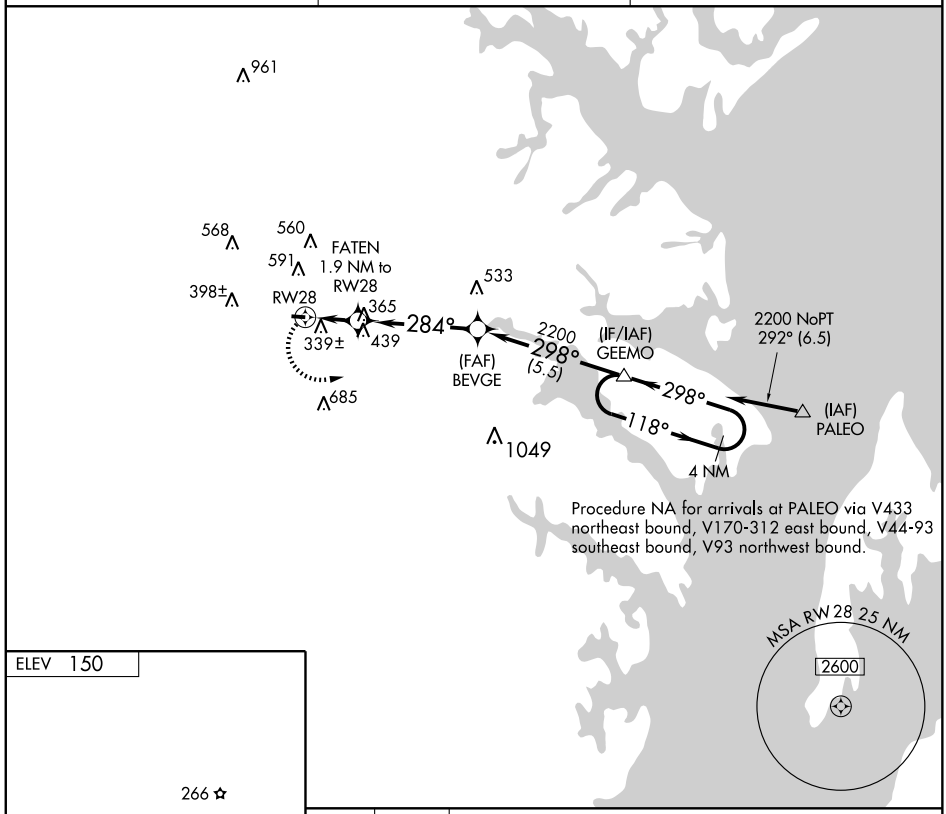
RNAV (GPS) RWY 28

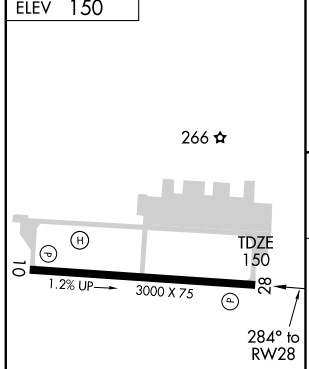
FORT MEADE (ODENTON)/ TIPTON (FME)

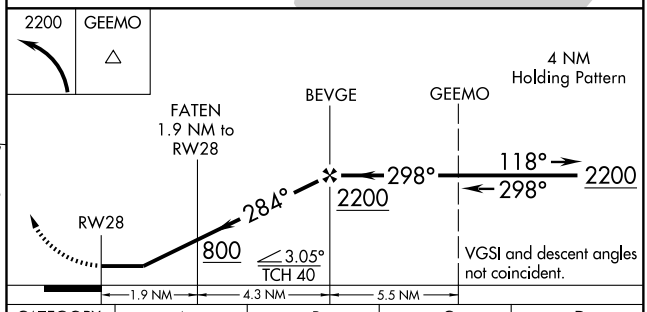
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Baltimore-Washington Intl Thurgood Marshall altimeter setting and increase all MDA 20 feet.

MISSED APPROACH: Climbing left turn to 2200 direct GEEMO and hold.

AWOS-3	POTOMAC APP CON	UNICOM
123.925	119.7 290.475	123.05 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	600-1 450 (500-1)		NA	
CIRCLING	820-1 670 (700-1)		NA	

REIL Rwys 10 and 28
MIRL Rwy 10-28 L

NE-3. 03 JUN 2010 to 01 JUL 2010

FORT MEADE(ODENTON), MARYLAND AL-5225 (FAA)

VORTAC BAL	APP CRS	Rwy Idg	3000
115.1	233°	TDZE	N/A
Chan 98		Apt Elev	150

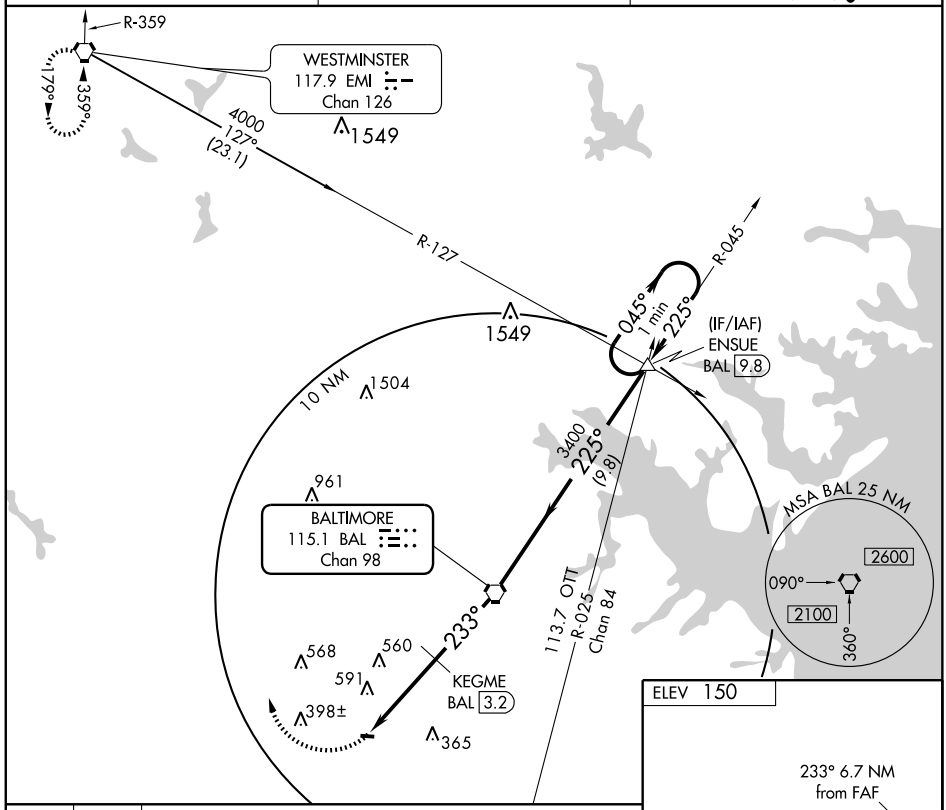
VOR-A

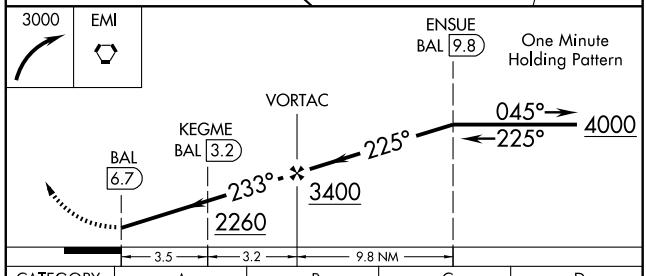
FORT MEADE(ODENTON)/ TIPTON (FME)

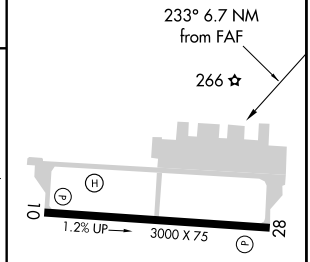
Use Baltimore/Washington Intl Thurgood Marshall altimeter setting. NA

MISSED APPROACH: Climbing right turn to 3000 direct EMI VORTAC and hold.

AWOS-3	POTOMAC APP CON	UNICOM
123.925	119.7 290.475	123.05 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	2260-1¼ 2110 (2200-1¼)	2260-1½ 2110 (2200-1½)	NA	

KEGME FIX MINIMUMS

CIRCLING	920-1 770 (800-1)	920-1¼ 770 (800-1¼)	NA	

REIL Rwys 10 and 28
MIRL Rwy 10-28 L

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

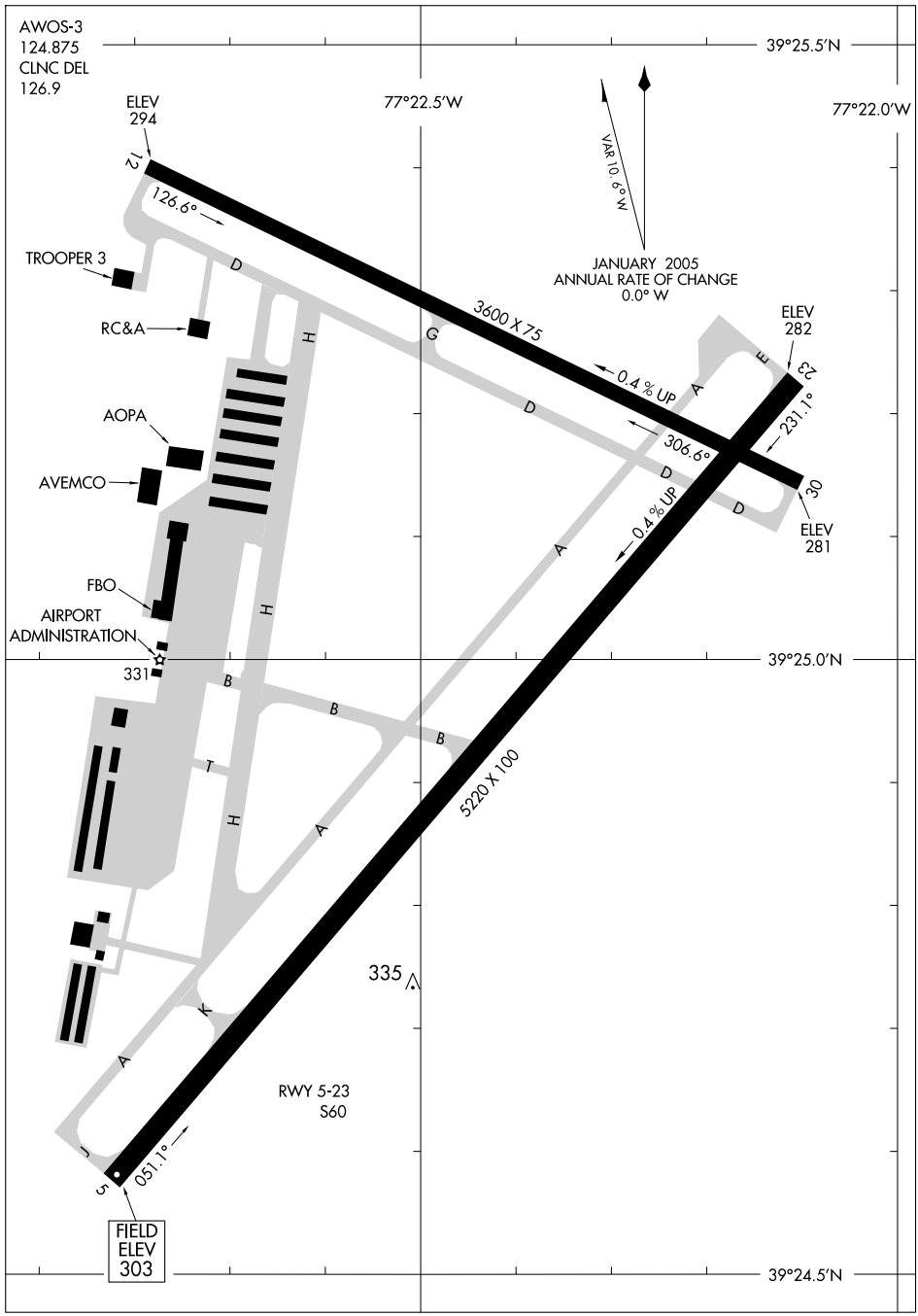
NE-3. 03 JUN 2010 to 01 JUL 2010

09351

AIRPORT DIAGRAM

AL-5089 (FAA)

FREDERICK MUNI (FDK)
FREDERICK, MARYLAND



NE-3, 03 JUN 2010 to 01 JUL 2010

LOC I-FDK	APP CRS	Rwy Idg	5220
110.3	228°	TDZE	296
		Apt Elev	303

ILS or LOC RWY 23

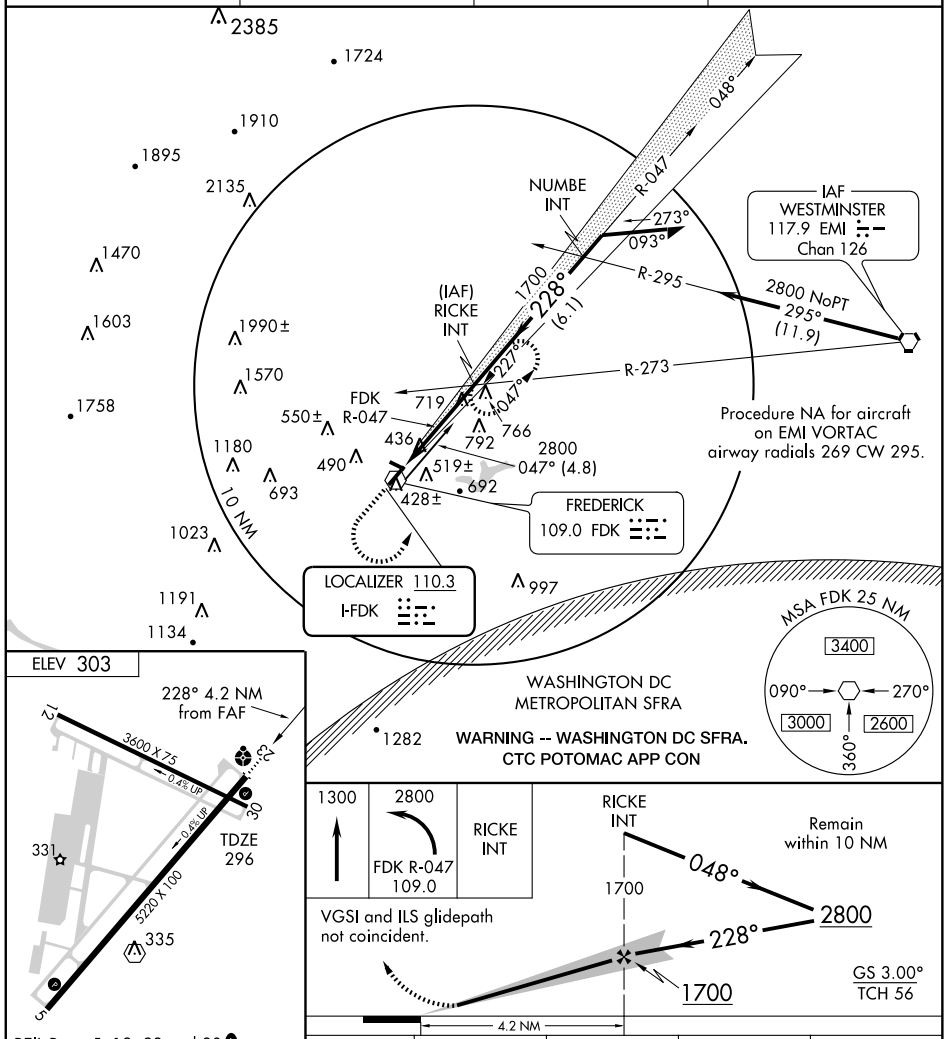
FREDERICK MUNI (FDK)

▼ NA — Inoperative table does not apply to S-LOC Cat C. When VGSI inop, Circling Rwy 5 and Rwy 30 NA at night.

ODALS

MISSED APPROACH: Climb to 1300, then climbing left turn to 2800 via FDK R-047 to RICKE INT and hold.

AWOS-3	POTOMAC APP CON		CLNC DEL	UNICOM
124.875	125.525	291.625	126.9	122.725 (CTAF) L



REIL Rwys 5, 12, 23 and 30 L
HIRL Rwy 5-23 L
MIRL Rwy 12-30 L

FAF to MAP 4.2 NM					
Knots	60	90	120	150	180
Min:Sec	4:12	2:48	2:06	1:41	1:24

CATEGORY	A	B	C	D
S-ILS 23	684-1½	388 (400-1½)		
S-LOC 23	1020-¾	724 (800-¾)	1020-2 724 (800-2)	1020-2¼ 724 (800-2¼)
CIRCLING	1020-1½	717 (800-1½)	1020-2 717 (800-2)	1080-2½ 777 (800-2½)

NE-3. 03 JUN 2010 to 01 JUL 2010

FREDERICK, MARYLAND

AL-5089 (FAA)

RNAV (GPS) RWY 5

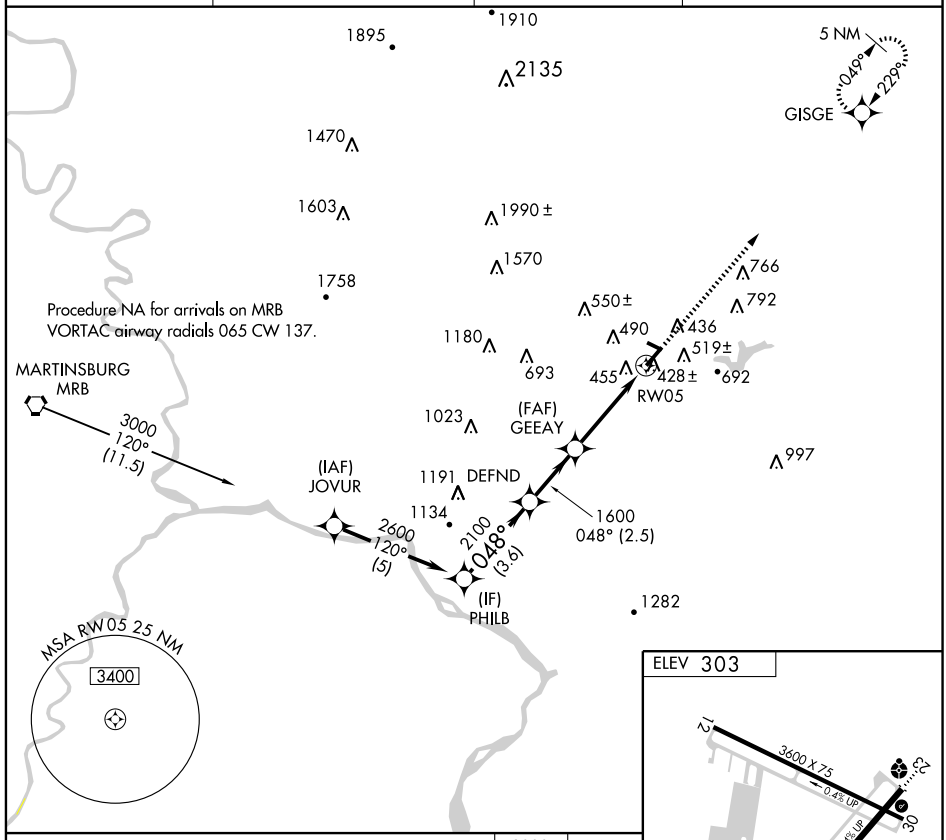
FREDERICK MUNI (FDK)

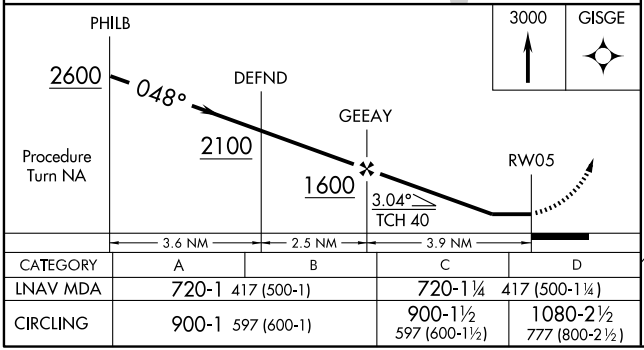
APP CRS	Rwy Idg	5220
048°	TDZE	303
	Apt Elev	303

DME/DME RNP -0.3 NA. If local altimeter setting not received, use Leesburg altimeter setting and increase all MDAs 80 feet.

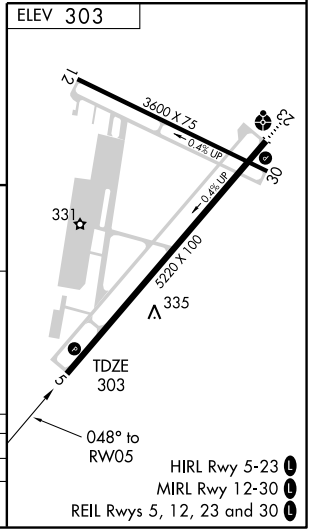
MISSED APPROACH: Climb to 3000 direct GISGE and hold.

AWOS-3	POTOMAC APP CON		CLNC DEL	UNICOM
124.875	125.525	291.625	126.9	122.725 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	720-1 417 (500-1)		720-1¼ 417 (500-1¼)	
CIRCLING	900-1 597 (600-1)		900-1½ 597 (600-1½)	1080-2½ 777 (800-2½)



HIRL Rwy 5-23 L
MIRL Rwy 12-30 L
REIL Rwys 5, 12, 23 and 30 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS		
229°	Rwy Idg	5220
	TDZE	296
	Apt Elev	303

RNAV (GPS) Y RWY 23

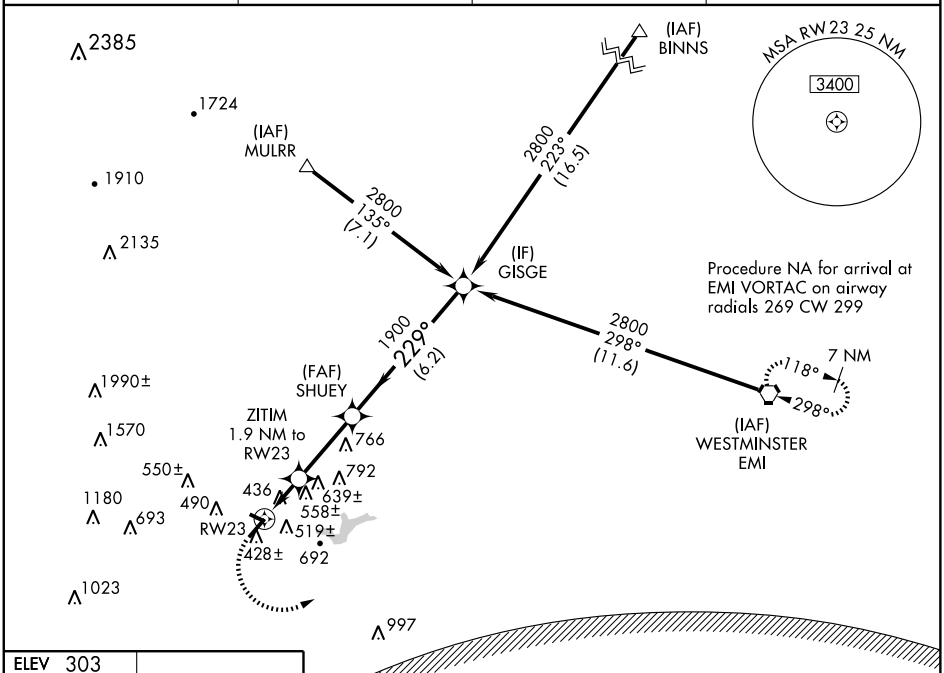
FREDERICK MUNI (FDK)

DME/DME RNP-0.3 NA.
Inoperative table does not apply to Cat C.
When VGSI inop, circling to Rwy 5 and Rwy 30 NA at night.

ODALS

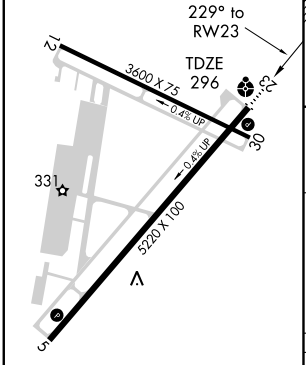
MISSED APPROACH: Climbing left turn to 3000 direct EMI VORTAC and hold.

AWOS-3	POTOMAC APP CON		CLNC DEL	UNICOM
124.875	125.525	291.625	126.9	122.725 (CTAF) L

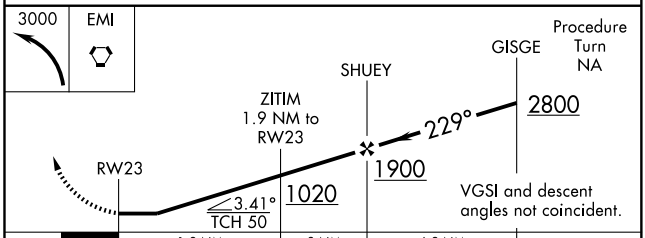


WASHINGTON DC
METROPOLITAN SFRA

WARNING -- WASHINGTON DC SFRA.
CTC POTOMAC APP CON



REIL Rwys 5, 12, 23 and 30 L
HIRL Rwy 5-23 L
MIRL Rwy 12-30 L



CATEGORY	A	B	C	D
LNAV MDA	820-¾ 524 (600-¾)		820-1½ 524 (600-1½)	820-1¾ 524 (600-1¾)
CIRCLING	900-1 597 (600-1)		900-1½ 597 (600-1½)	1080-2½ 777 (800-2½)

NE-3. 03 JUN 2010 to 01 JUL 2010

FREDERICK, MARYLAND

AL-5089 (FAA)

WAAS	APP CRS	Rwy Idg	5220
CH 81802	229°	TDZE	296
W23A		Apt Elev	303

RNAV (GPS) Z RWY 23

FREDERICK MUNI (FDK)

DME/DME RNP-0.3 NA. Baro-VNAV NA below -15°C (5°F). When VGSI inop, Circling Rwy 5 and Rwy 30 NA at night. Inoperative table does not apply to LPV, LNAV/VNAV all Cats, and LNAV Cat C.

ODALS

MISSED APPROACH: Climb to 3000 direct BIYAS WP and via 139° track to FEDIT WP and via 059° track to EMI VORTAC and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL	UNICOM
124.875	125.525 291.625	126.9	122.725 (CTAF) L

2385 1724 1910 1895 2135 1470 1603 1990± 1570 1758 550± 1180 693 490 436 766 792 558± 519± 428± 692 1023 997 1191

(IAF) BINNS

2800 223° (16.5)

(IAF) MULRR

2800 135° (7.1)

(IF) GISGE

1900 229° (6.2)

(FAF) SHUEY

MSA RW23 25 NM

3400

2800 298° (11.6)

7 NM 118° 298°

(IAF) WESTMINSTER EMI

Procedure NA for arrival at EMI VORTAC on airway radials 269 CW 299.

RW23

BIYAS

139°

059°

FEDIT

WASHINGTON DC METROPOLITAN SFRA

WARNING -- WASHINGTON DC SFRA. CTC POTOMAC APP CON

ELEV 303

229° to RW23

TDZE 296

3600 X 75

0.4% UP

5220 X 100

0.4% UP

331

REIL Rwys 5, 12, 23 and 30 L

HIRL Rwy 5-23 L

MIRL Rwy 12-30 L

3000	BIYAS	TRK 139°	FEDIT	TRK 059°	EMI

Procedure Turn NA

GISGE

2800

GS 3.00° TCH 50

SHUEY

229°

*2.2 NM to RW23

RW23

*LNAV only

1900

VGSI and RNAV glidepath not coincident.

2.2 | 2.7 NM | 6.2 NM

CATEGORY	A	B	C	D
LPV DA	690-1½ 394 (400-1½)			
LNAV/VNAV DA	1020-2½ 724 (800-2½)			
LNAV MDA	1020-¾ 724 (800-¾)		1020-2 724 (800-2)	1020-2¼ 724 (800-2¼)
CIRCLING	1020-2½ 717 (800-2½)			1080-2½ 777 (800-2½)

NE-3. 03 JUN 2010 to 01 JUL 2010

VOR FDK 109.0	APP CRS 220°	Rwy Idg N/A TDZE N/A Apt Elev 303

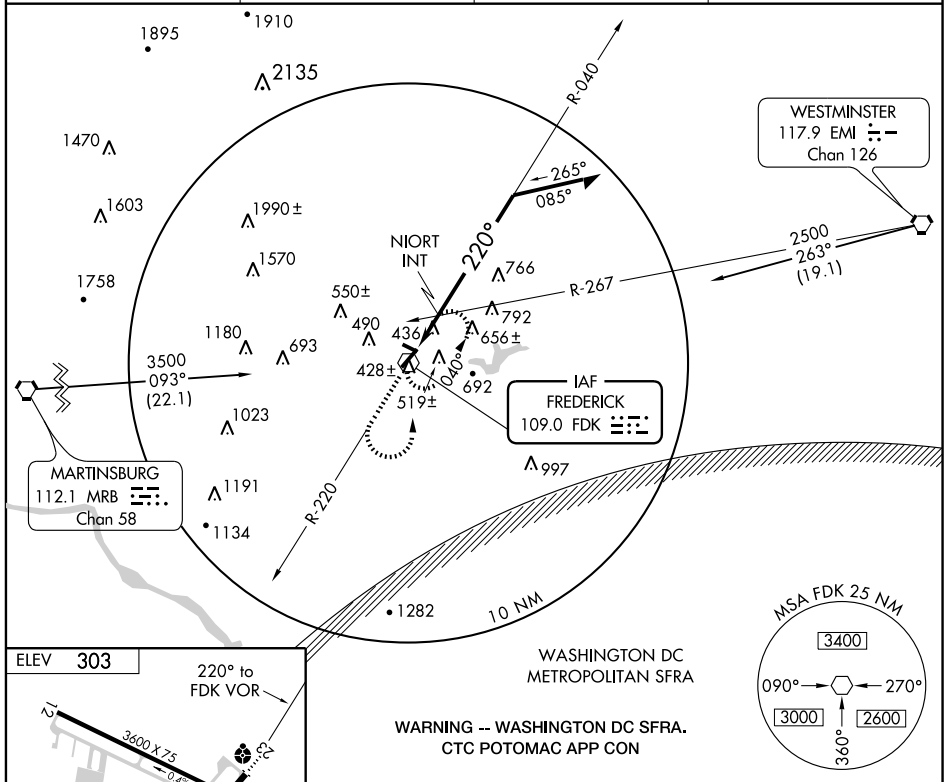
VOR-A

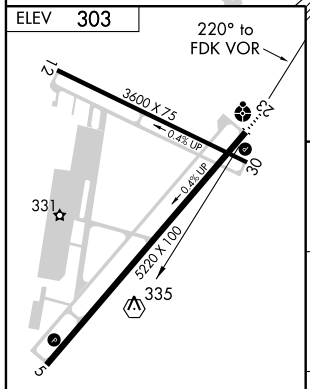
FREDERICK MUNI (FDK)

NA

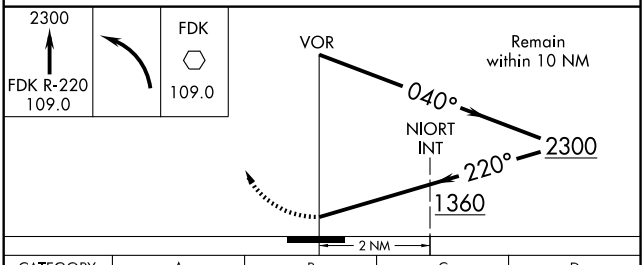
MISSED APPROACH: Climb to 2300 via FDK R-220 then left turn direct FDK VOR and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL	UNICOM
124.875	125.525 291.625	126.9	122.725 (CTAF) L





REIL Rwys 5, 12, 23 and 30 L
HIRL Rwy 5-23 L
MIRL Rwy 12-30 L

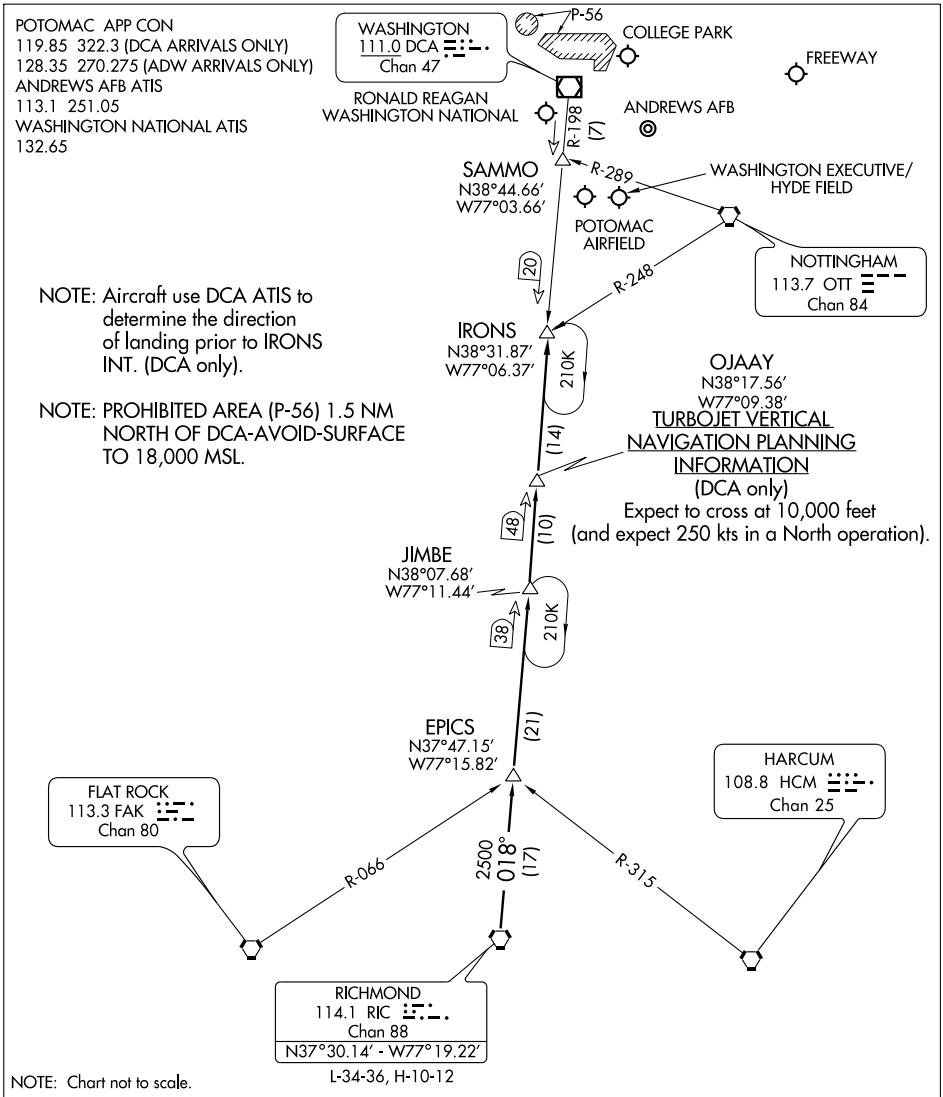


CATEGORY	A	B	C	D
CIRCLING	1360-1¼ 1057 (1100-1¼)	1360-1½ 1057 (1100-1½)	1360-3 1057 (1100-3)	
NIORT INT MINIMUMS				
CIRCLING	920-1 617 (700-1)		920-1¾ 617 (700-1¾)	1080-2½ 777 (800-2½)

NE-3. 03 JUN 2010 to 01 JUL 2010

IRONS FOUR ARRIVAL

WASHINGTON, DC



RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence. . . .

. . . .From over IRONS INT:
Ronald Reagan Washington National Airport (DCA only):
LANDING SOUTH: Then via DCA R-198 to SAMMO INT, heading for vectors to the final approach course.
LANDING NORTH: Expect vectors to final approach course.
All other airports: Expect vectors.

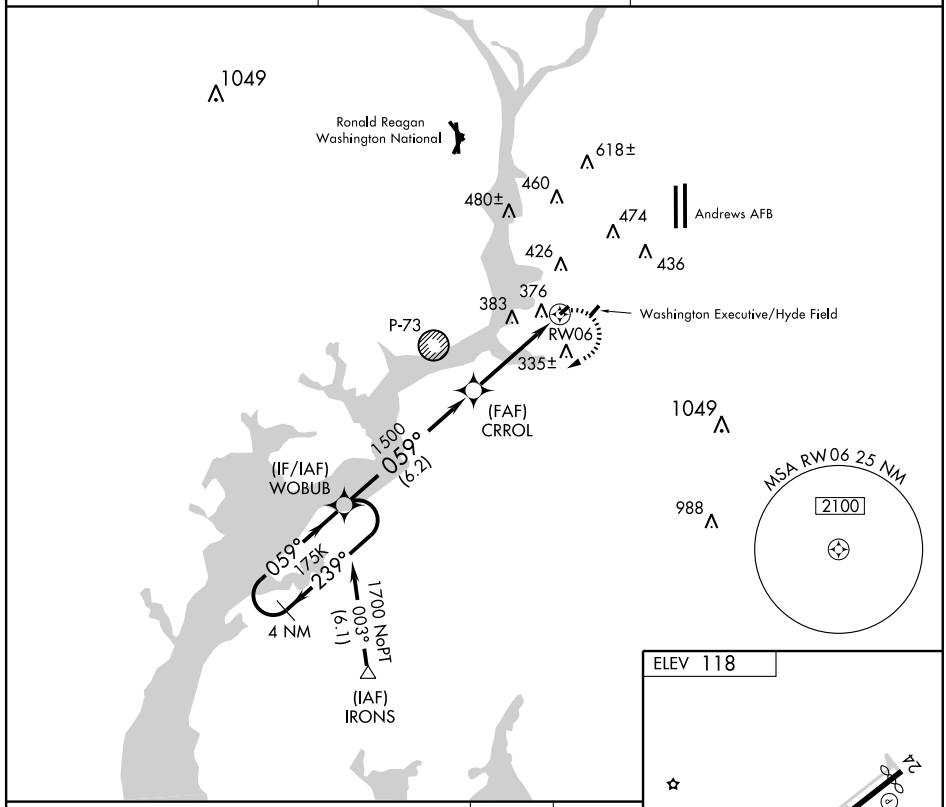
APP CRS	Rwy Idg	2289
059°	TDZE	118
	Apt Elev	118

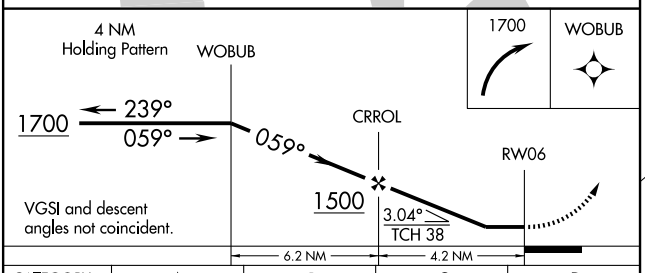
RNAV (GPS) RWY 6

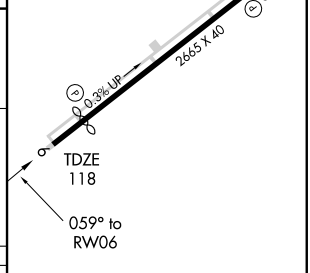
FRIENDLY / POTOMAC AIRFIELD (VKX)

NA	Circling NA SE of Rwys 6 and 24. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. If local altimeter setting not received, use Andrews AFB altimeter setting and increase all MDAs 40 feet.	MISSED APPROACH: Climbing right turn to 1700 direct WOBUB and hold.

AWOS-A	POTOMAC APP CON	UNICOM
122.8	125.650 348.725	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	680-1 562 (600-1)	NA		
CIRCLING	740-1 622 (700-1)	NA		

REIL Rwy 6-24 L

NE-3. 03 JUN 2010 to 01 JUL 2010

NDB GAI	APP CRS	Rwy Idg	4202
385	134°	TDZE	520
		Apt Elev	539

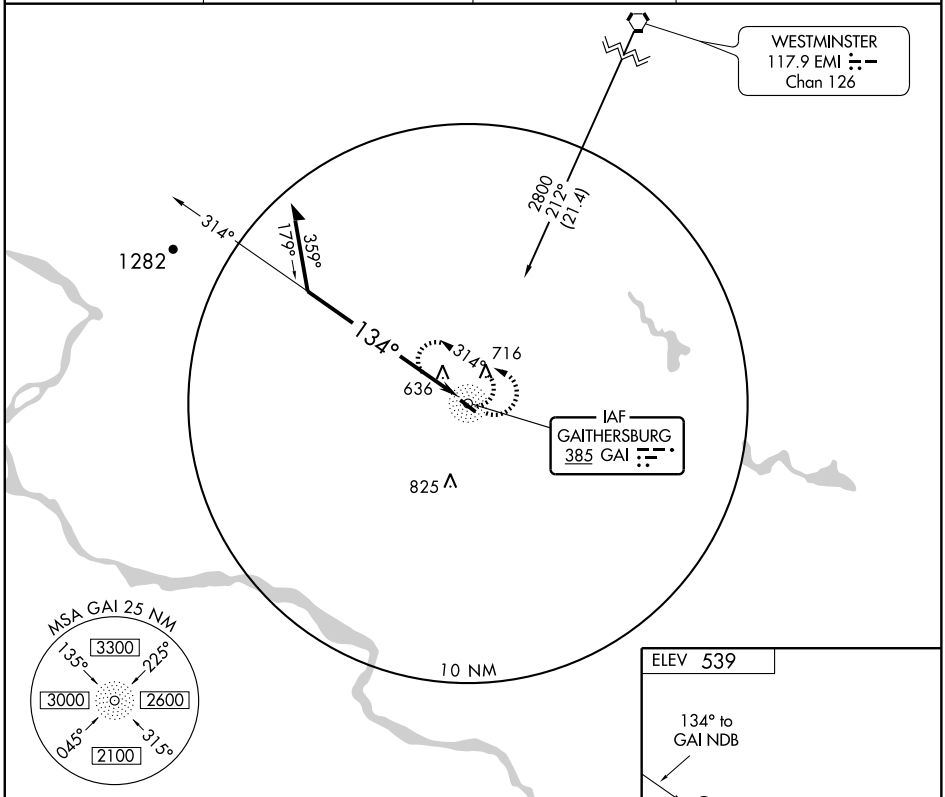
NDB RWY 14

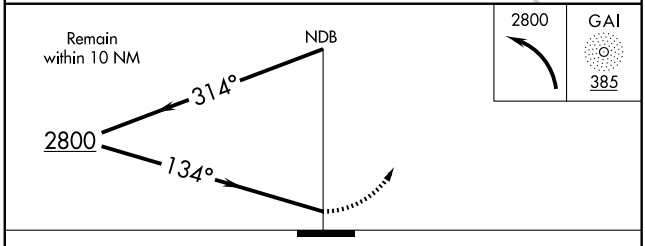
GAITHERSBURG/ MONTGOMERY COUNTY AIRPARK (GAI)

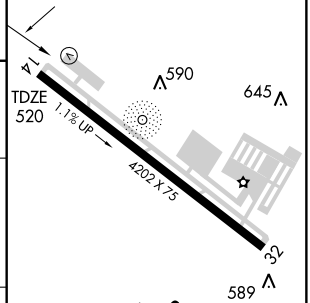
Circling to Rwy 32 NA at night.
If local altimeter not received, use Washington Dulles Intl altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climbing left turn to 2800 in GAI NDB holding pattern.

AWOS-3	POTOMAC APP CON	CLNC DEL	UNICOM
128.275	128.7 291.625	121.6	123.075 (CTAF) L







REIL Rwys 14 and 32 L
MIRL Rwy 14-32 L

CATEGORY	A	B	C	D
S-14	1380-1 860 (900-1)	1380-1¼ 860 (900-1¼)	1380-2½ 860 (900-2½)	1380-2¾ 860 (900-2¾)
CIRCLING	1380-1 841 (900-1)	1380-1¼ 841 (900-1¼)	1380-2½ 841 (900-2½)	1380-2¾ 841 (900-2¾)

Knots	60	90	120	150	180
Min:Sec					

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 77502 W14A	APP CRS 136°	Rwy Idg 4202 TDZE 520 Apt Elev 539

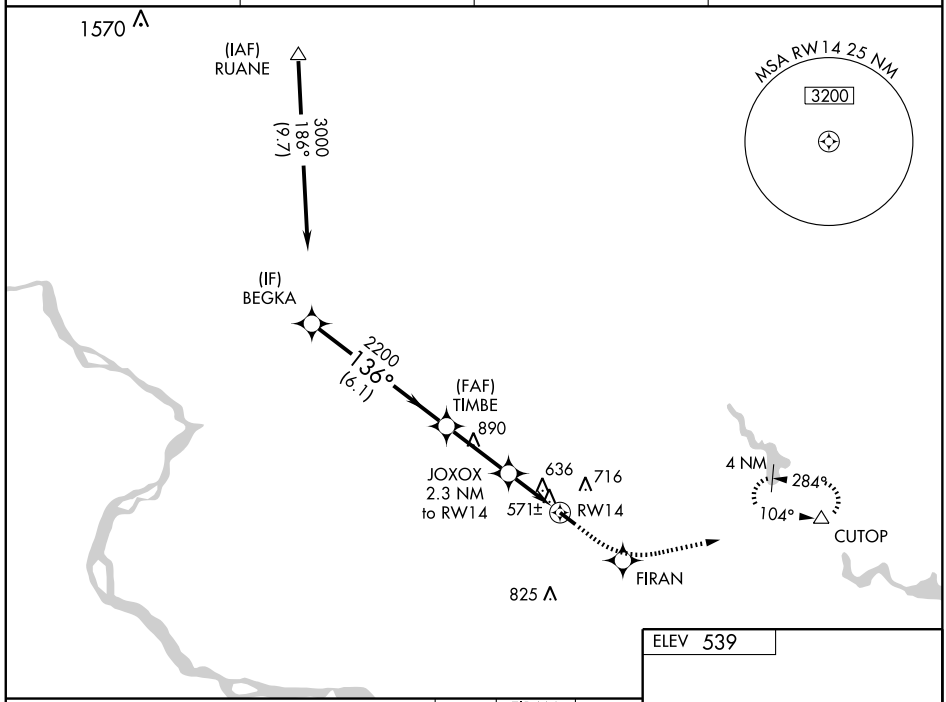
RNAV (GPS) RWY 14

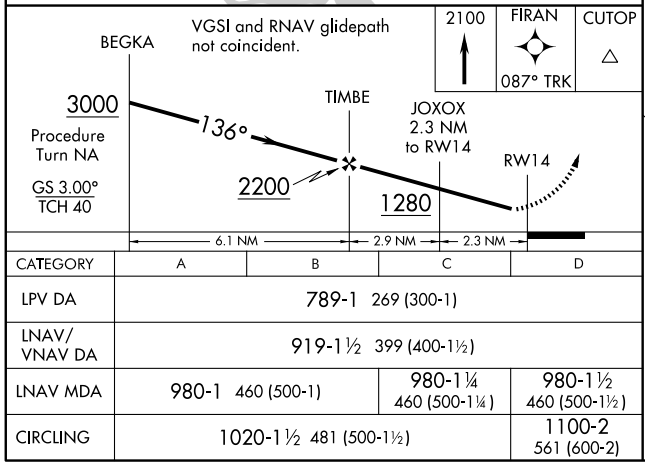
GAITHERSBURG/ MONTGOMERY COUNTY AIRPARK (GAI)

Baro-VNAV NA below -16°C (4°F). DME/DME RNP-0.3 NA. If local altimeter setting not received, use Washington Dulles Intl altimeter setting and increase all DAs/MDAs 80 feet. Baro-VNAV NA when using Washington Dulles Intl altimeter setting. Circling to Rwy 32 NA at night.

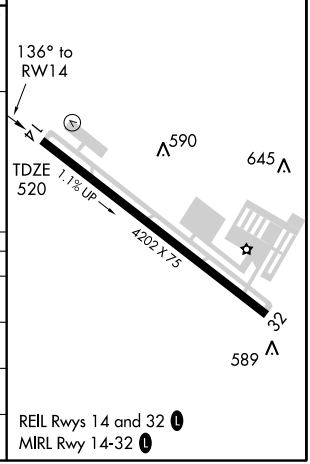
MISSED APPROACH: Climb to 2100 direct FIRAN and via 087° track to CUTOP and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL	UNICOM
128.275	128.7 291.625	121.6	123.075 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	789-1 269 (300-1)			
LNAV/ VNAV DA	919-1½ 399 (400-1½)			
LNAV MDA	980-1 460 (500-1)		980-1¼ 460 (500-1¼)	980-1½ 460 (500-1½)
CIRCLING	1020-1½ 481 (500-1½)			1100-2 561 (600-2)



REIL Rwys 14 and 32 L
MIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VOR FDK	APP CRS	Rwy Idg 4202
109.0	155°	TDZE 523
		Apt Elev 538

VOR RWY 14

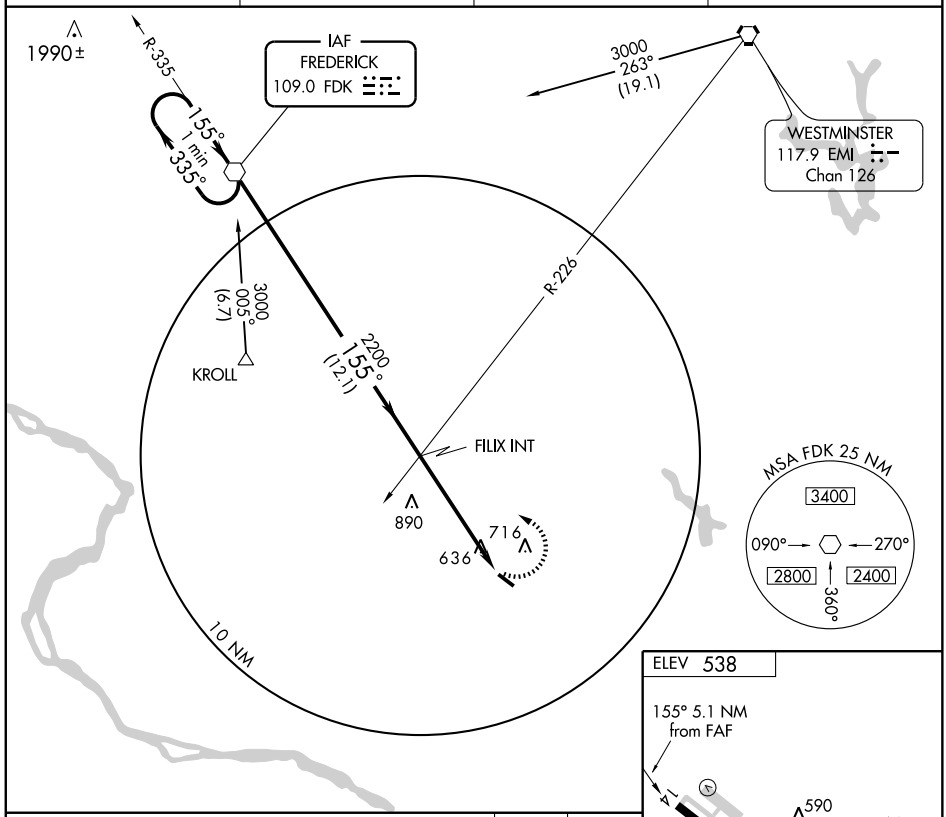
GAITHERSBURG/ MONTGOMERY COUNTY AIRPARK (GAI)

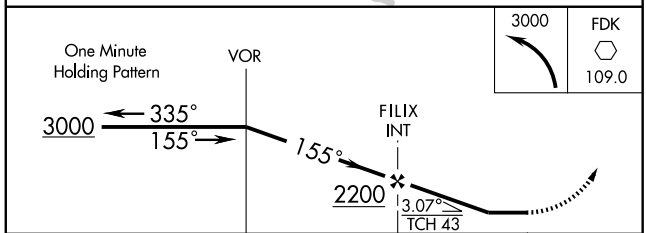
Circling to Rwy 32 NA at night.
If local altimeter not received, use Washington Dulles Intl altimeter setting and increase all MDAs 80 feet.

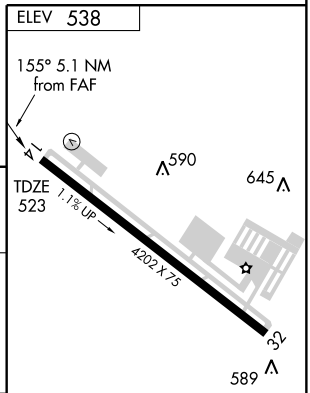
NA

MISSED APPROACH: Climbing left turn to 3000 direct FDK VOR and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL	UNICOM
128.275	128.7 291.625	121.6	123.075 (CTAF) L







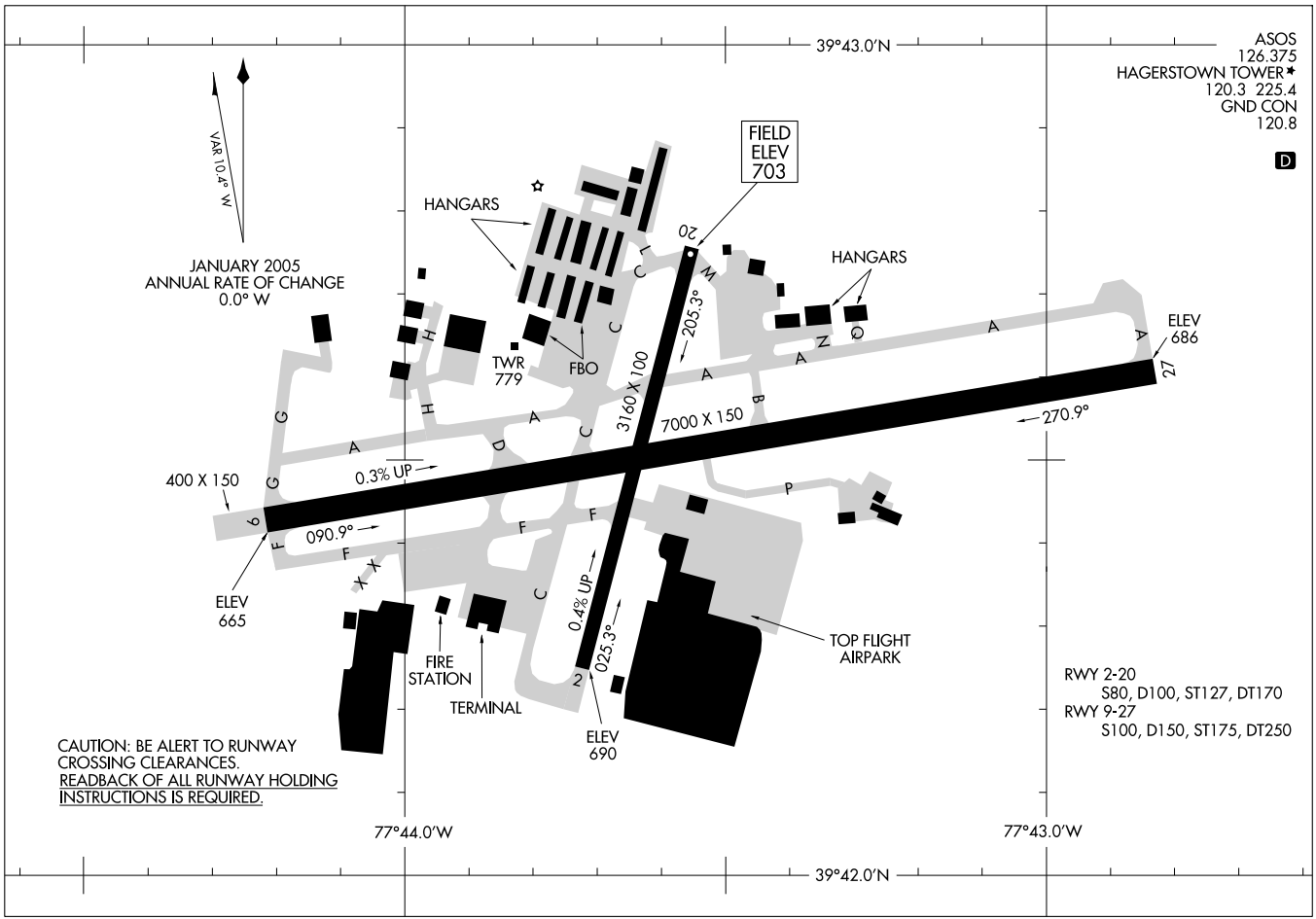
CATEGORY	A	B	C	D
S-14	1200-1	677 (700-1)	1200-2 677 (700-2)	1200-2¼ 677 (700-2¼)
CIRCLING	1200-1	662 (700-1)	1200-2 662 (700-2)	1200-2¼ 662 (700-2¼)

REIL Rwys 14 and 32 L
MIRL Rwy 14-32 L

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

NE-3. 03 JUN 2010 to 01 JUL 2010



10134

AIRPORT DIAGRAM

HAGERSTOWN RGNL-RICHARD A HENSON FIELD (HGR)
AL-5114 (FAA)
HAGERSTOWN, MARYLAND

LOC/DME I-UYK	APP CRS	Rwy Idg	7000
111.9	089°	TDZE	695
Chan 56		Apt Elev	703

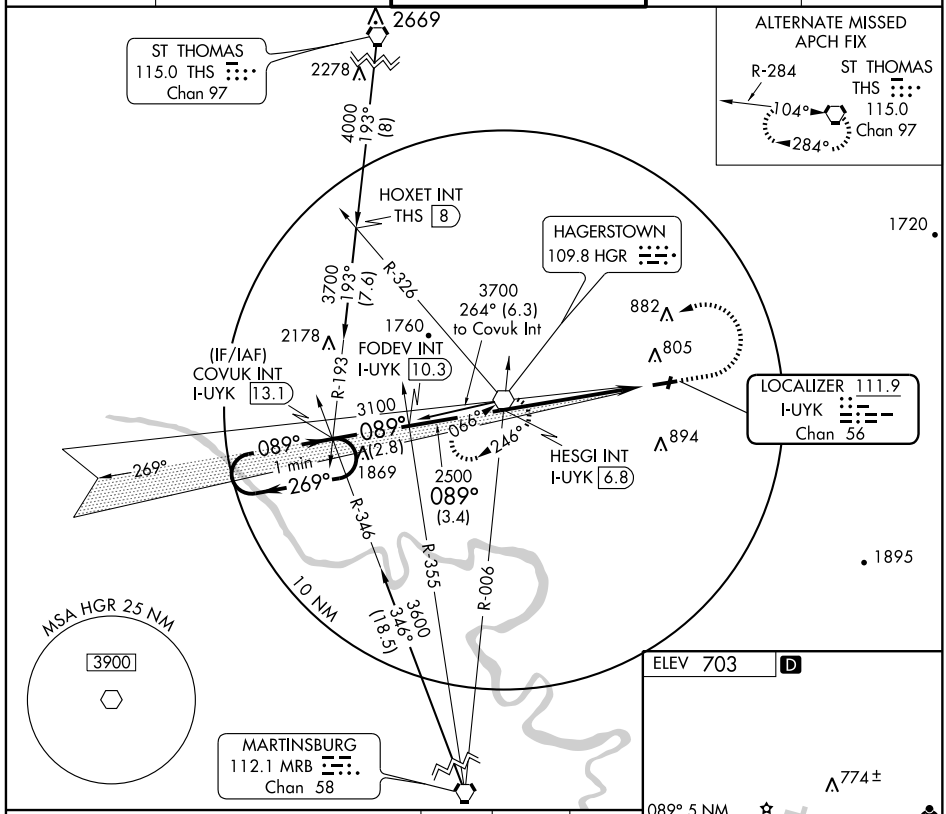
ILS or LOC RWY 9

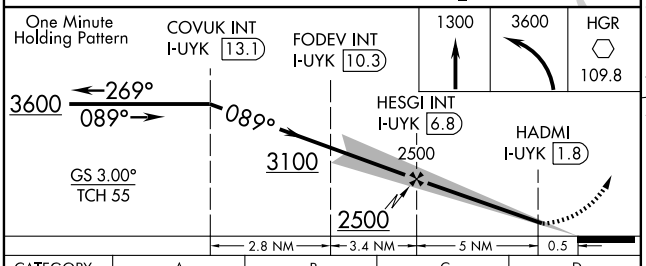
HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR)

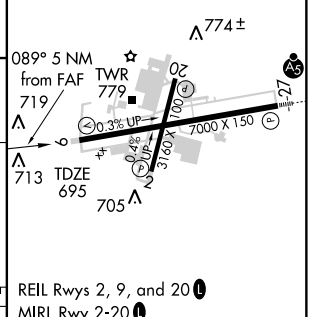
If local altimeter setting not received, use Martinsburg altimeter setting and increase DA to 966, increase all MDAs 80 feet.

MISSED APPROACH: Climb to 1300 then climbing left turn to 3600 direct HGR VOR and hold, continue climb-in-hold to 3600.

ASOS	WASHINGTON CENTER	HAGERSTOWN TOWER ★	GND CON	UNICOM
126.375	134.15 385.4	120.3 (CTAF) L 225.4	120.8	122.95







REIL Rwys 2, 9, and 20 L
MIRL Rwy 2-20 L
HIRL Rwy 9-27 L

CATEGORY	A	B	C	D
S-ILS 9	895-¾ 200 (200-¾)			
S-LOC 9	980-1 285 (300-1)			
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160-1½ 457 (500-1½)	1260-2 557 (600-2)

FAF to MAP 5 NM

Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

NE-3. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-HGR	APP CRS	Rwy Idg 7000
111.9	269°	TDZE 701
Chan 56		Apt Elev 703

ILS or LOC RWY 27

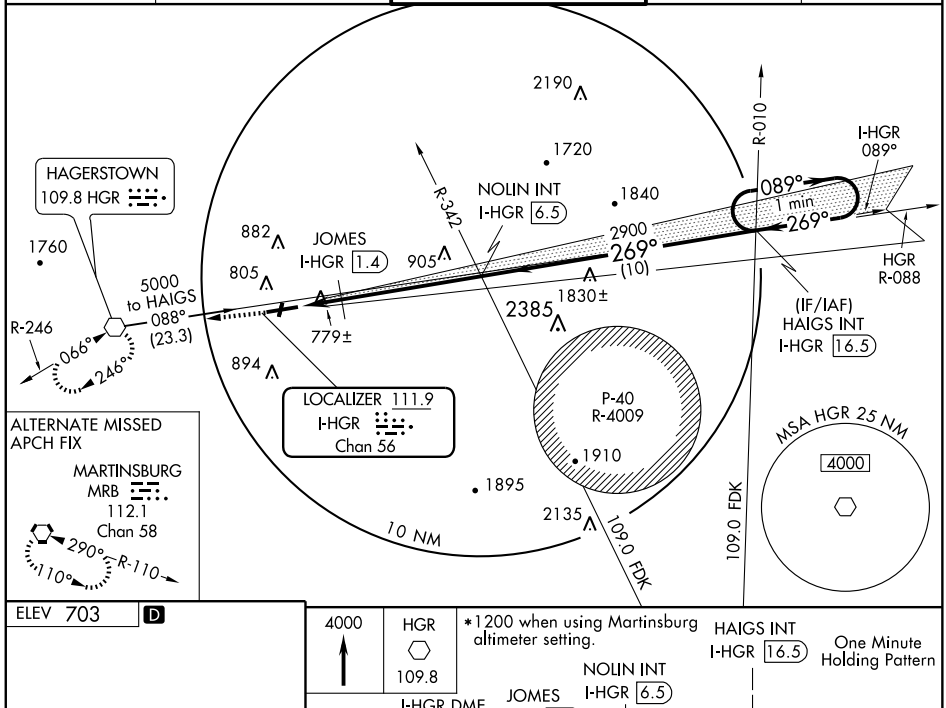
HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR)

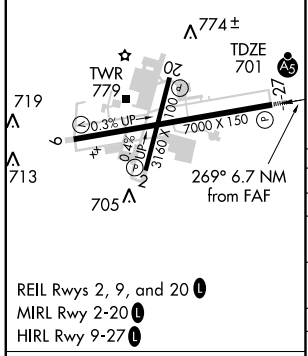
When local altimeter setting not received; use Martinsburg altimeter setting and increase DA to 971 and all MDA 80 feet; increase S-LOC 27 Cat D and JOMES Fix minimum S-LOC 27 Cat C visibility ¼ mile. VDP NA when using Martinsburg altimeter setting. For inoperative MALSR, increase JOMES Fix minimums S-LOC 27 Cat D visibility ¼ mile. For inoperative MALSR, when using Martinsburg altimeter setting, increase S-ILS 27 all Cats visibility ½ mile.

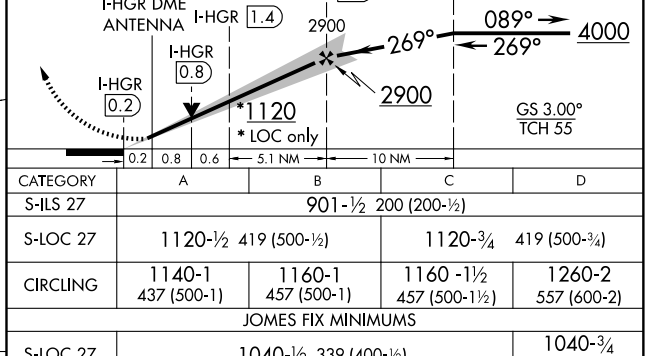
MALSR

MISSED APPROACH: Climb to 4000 direct HGR VOR and hold, continue climb-in-hold to 4000.

ASOS	WASHINGTON CENTER	HAGERSTOWN TOWER ★	GND CON	UNICOM
126.375	134.15 385.4	120.3 (CTAF) L 225.4	120.8	122.95







REIL Rwys 2, 9, and 20 L
MIRL Rwy 2-20 L
HIRL Rwy 9-27 L

FAF to MAP 6.7 NM					
Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

CATEGORY	A	B	C	D
S-ILS 27	901-½ 200 (200-½)			
S-LOC 27	1120-½ 419 (500-½)		1120-¾ 419 (500-¾)	
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160 -1½ 457 (500-1½)	1260-2 557 (600-2)
JOMES FIX MINIMUMS				
S-LOC 27	1040-½ 339 (400-½)			1040-¾ 339 (400-¾)
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160-1½ 457 (500-1½)	1260-2 557 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 49011 W09A	APP CRS 088°	Rwy Idg 7000 / TDZE 695 / Apt Elev 703

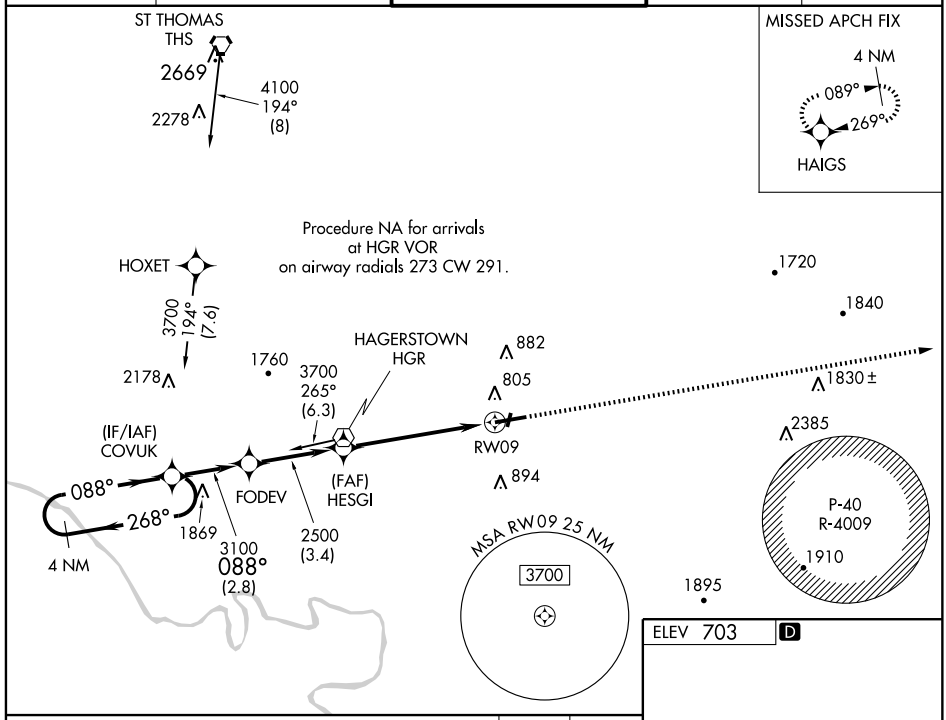
RNAV (GPS) RWY 9

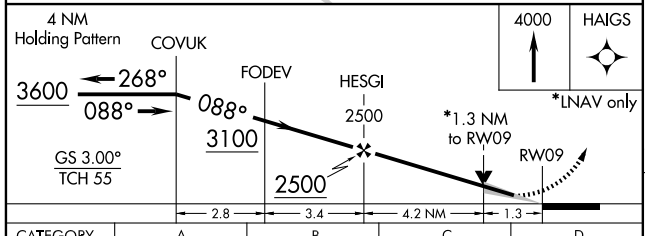
HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR)

T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Martinsburg altimeter setting and increase LPV DA to 965, LNAV/VNAV DA to 1101, and all MDA 80 feet; increase LPV all Cats, LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile. VDP and Baro-VNAV NA when using Martinsburg altimeter setting.

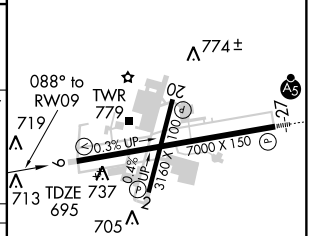
MISSED APPROACH: Climb to 4000 direct HAIGS and hold.

ASOS	WASHINGTON CENTER	HAGERSTOWN TOWER ★	GND CON	UNICOM
126.375	134.15 385.4	120.3 (CTAF) L 225.4	120.8	122.95





CATEGORY	A	B	C	D
LPV DA	895-¾ 200 (200-¾)			
LNAV/VNAV DA	1031-1¼ 336 (400-1¼)			
LNAV MDA	1140-1 445 (500-1)		1140-1¼ 445 (500-1¼)	1140-1½ 445 (500-1½)
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160-1½ 457 (500-1½)	1260-2 557 (600-2)



REIL Rwys 2, 9, and 20 L
MIRL Rwy 2-20 L
HIRL Rwy 9-27 L

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 86911 W27A	APP CRS 269°	Rwy Idg 7000 / TDZE 701 / Apt Elev 703

RNAV (GPS) RWY 27

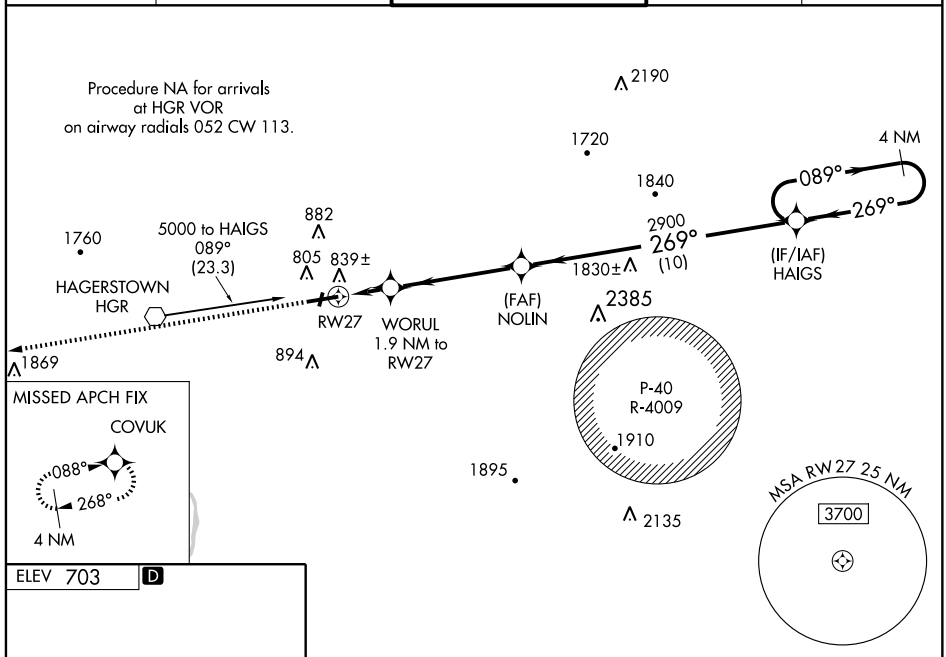
HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR)

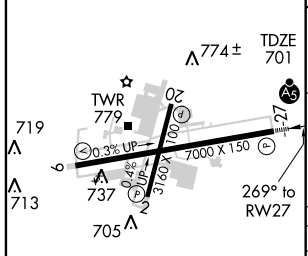
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Martinsburg altimeter setting and increase LPV DA to 971, LNAV/VNAV DA to 1175, and all MDA 80 feet; increase LNAV/VNAV all Cats, and LNAV Cat C visibility ¼ mile. VDP and Baro-VNAV NA when using Martinsburg altimeter setting. For inoperative MALSR, increase LNAV Cat D visibility ¼ mile. For inoperative MALSR when using Martinsburg altimeter setting, increase LPV all Cats visibility ½ .

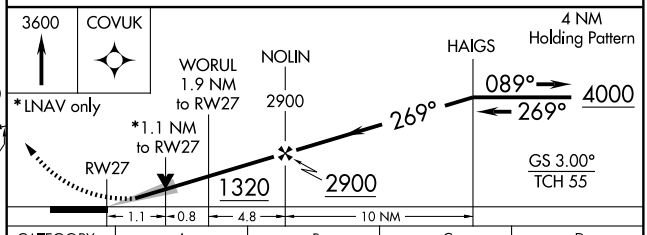
MALSR

MISSED APPROACH: Climb to 3600 direct COVUK and hold.

ASOS	WASHINGTON CENTER	HAGERSTOWN TOWER ★	GND CON	UNICOM
126.375	134.15 385.4	120.3 (CTAF) L 225.4	120.8	122.95







CATEGORY	A	B	C	D
LPV DA	901-½ 200 (200-½)			
LNAV/VNAV DA	1105-1 404 (500-1)			
LNAV MDA	1100-½ 399 (400-½)			1100-1 399 (400-1)
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160-1½ 457 (500-1½)	1260-2 557 (600-2)

REIL Rwys 2, 9, and 20 L
MIRL Rwy 2-20 L
HIRL Rwy 9-27 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VOR HGR 109.8	APP CRS 091°	Rwy Idg 7000 TDZE 695 Apt Elev 703

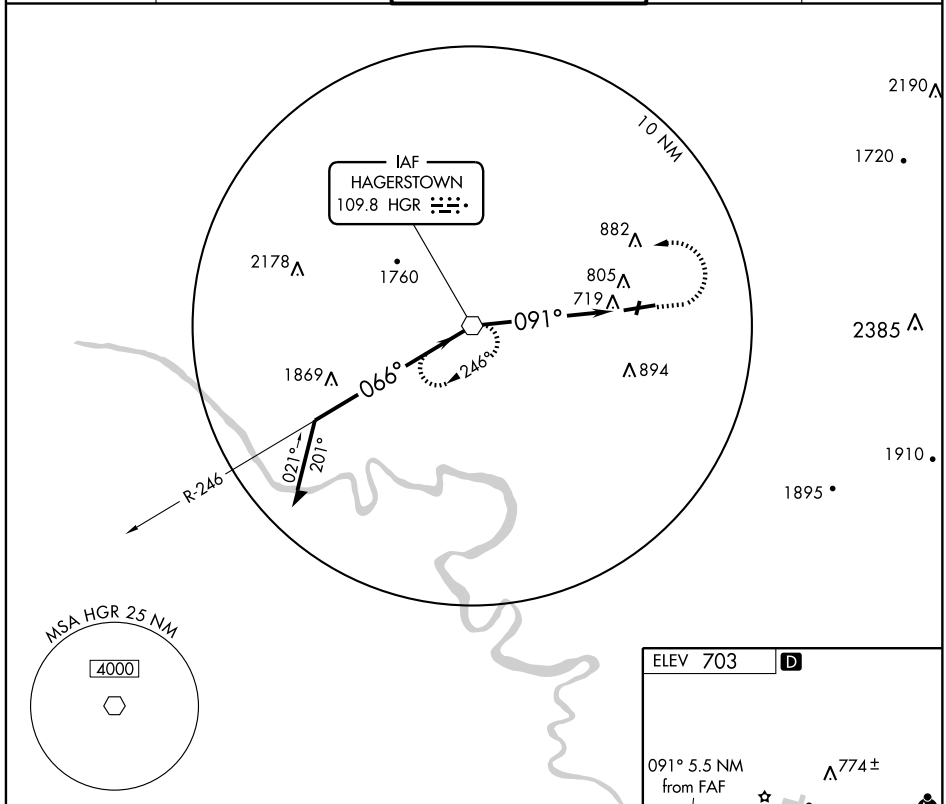
VOR RWY 9

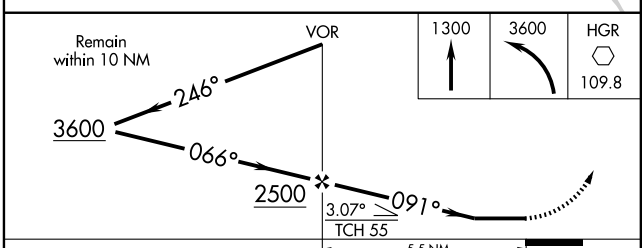
HAGERSTOWN RGNL-RICHARD A. HENSON FIELD (HGR)

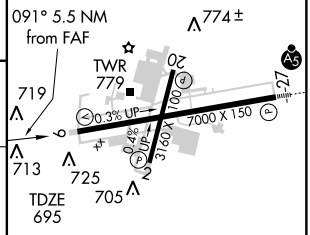
T/A When local altimeter setting not received, use Martinsburg altimeter setting and increase all MDA 80 feet; increase S-9 Cat C and D visibility ¼ mile.

MISSED APPROACH: Climb to 1300 then climbing left turn to 3600 direct HGR VOR and hold, continue climb-in-hold to 3600.

ASOS	WASHINGTON CENTER	HAGERSTOWN TOWER ★	GND CON	UNICOM
126.375	134.15 385.4	120.3 (CTAF) L 225.4	120.8	122.95







REIL Rwys 2, 9, and 20 L
MIRL Rwy 2-20 L
HIRL Rwy 9-27 L

CATEGORY	A	B	C	D
S-9	1060-1 365 (400-1)			1060-1¼ 365 (400-1¼)
CIRCLING	1140-1 437 (500-1)	1160-1 457 (500-1)	1160-1½ 457 (500-1½)	1260-2 557 (600-2)

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	3000
356°	TDZE	168
	Apt Elev	171

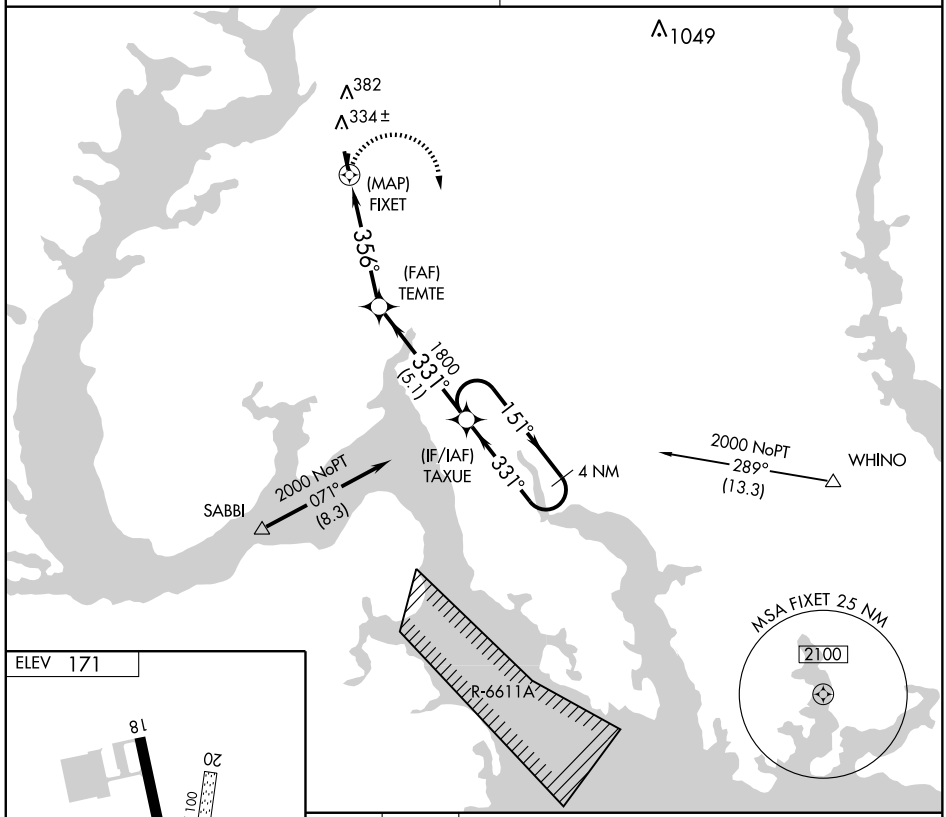
RNAV (GPS) RWY 36

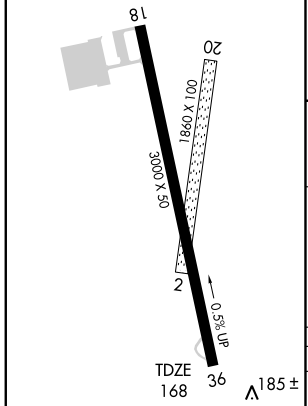
INDIAN HEAD/ MARYLAND (2W5)

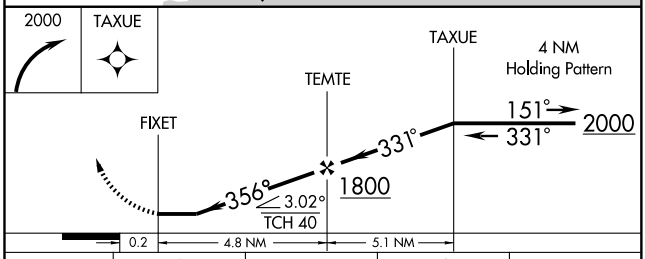
NA — Use Ronald Reagan Washington National altimeter setting. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 2000 direct TAXUE WP and hold.

POTOMAC APP CON	UNICOM
119.85 322.3	122.7 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	600 - 1	432 (500-1)	NA	
CIRCLING	760 - 1	589 (600-1)	NA	

LIRL Rwy 18-36 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC OTT 113.7 Chan 84	APP CRS 078°	Rwy Idg N/A TDZE N/A Apt Elev 171

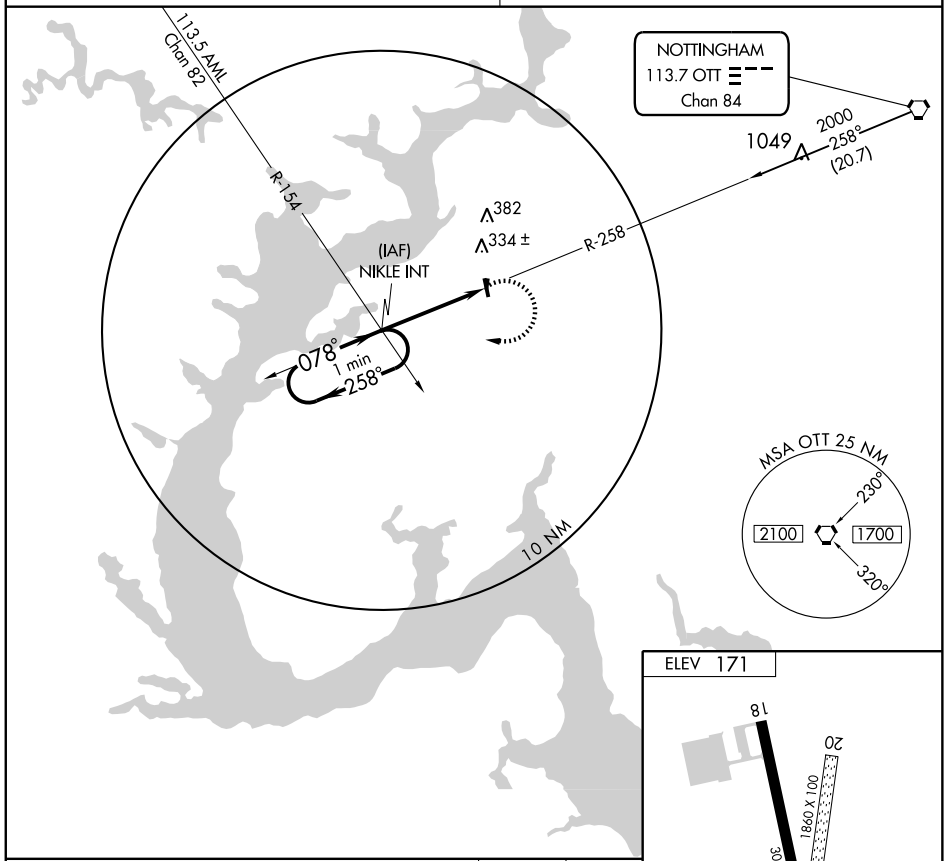
VOR-A

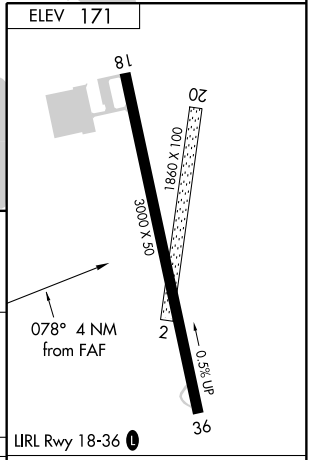
INDIAN HEAD/ MARYLAND (2W5)

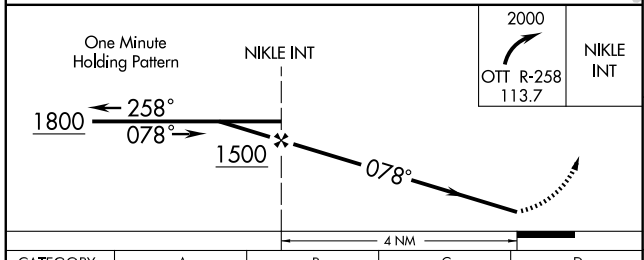
NA Use Ronald Reagan Washington National altimeter setting. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 2000 via OTT R-258 to NIKLE Int and hold.

POTOMAC APP CON	UNICOM
119.85 322.3	122.7 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	760 - 1	589 (600-1)	NA	

FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS CH 70502 W11A	APP CRS 112°	Rwy Idg 4150 TDZE 142 Apt Elev 142

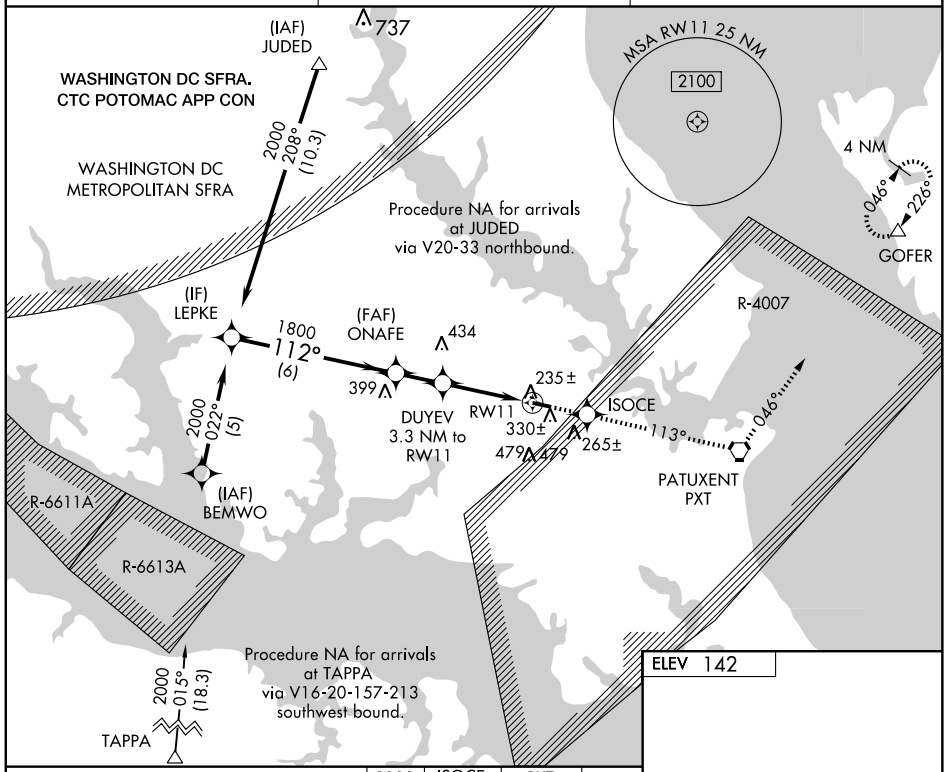
RNAV (GPS) RWY 11

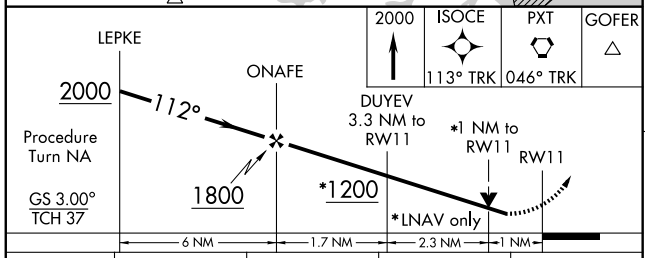
LEONARDTOWN/ ST. MARY'S COUNTY RGNL (2W6)

Circling to Rwy 29 NA at night. If local altimeter setting not received, use Patuxent River altimeter setting and increase all DAs/MDAs 40 feet. DME/DME RNP-0.3 NA. VDP NA with Patuxent River altimeter setting. Visibility reduction by helicopters NA.

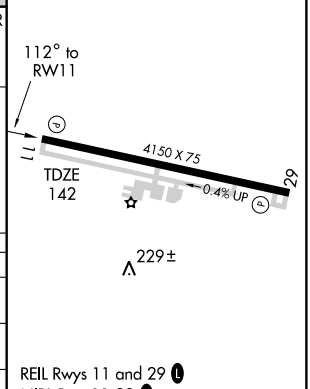
MISSED APPROACH: Climb to 2000 direct ISOCE and via 113° track to PXT VORTAC and 046° track to GOFER and hold.

AWOS-3	PATUXENT APP CON ★	UNICOM
119.575	121.0 250.3	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	440-1	298 (300-1)	NA	
LNAV MDA	500-1	358 (400-1)	NA	
CIRCLING	660-1	518 (600-1)	NA	



NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	4150
CH 61313	292°	TDZE	137
W29A		Apt Elev	142

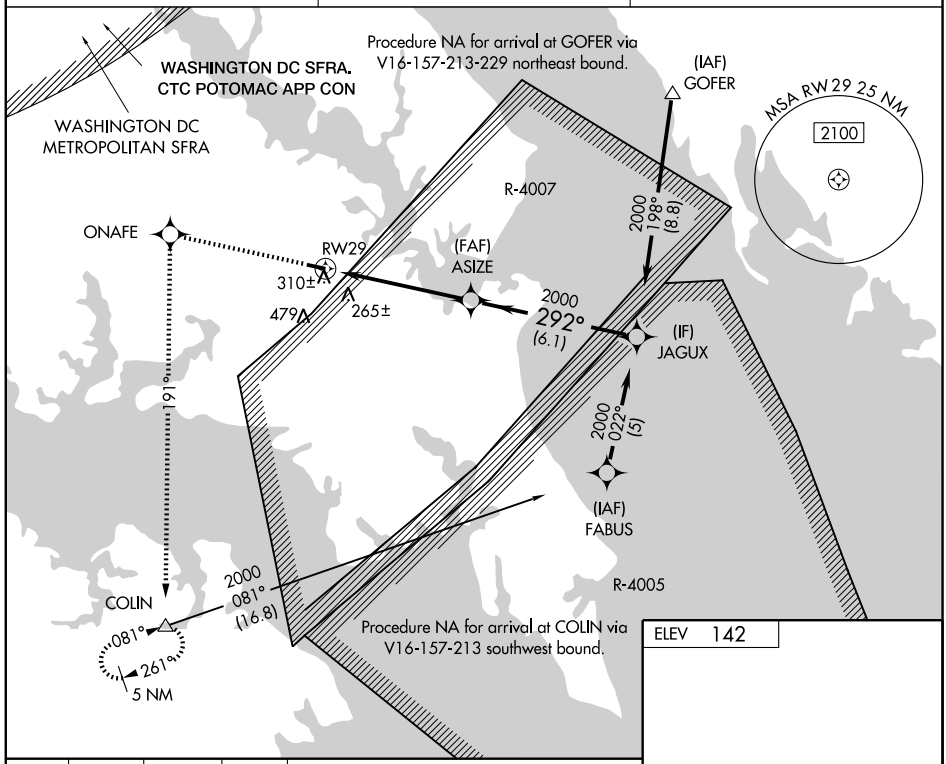
RNAV (GPS) RWY 29

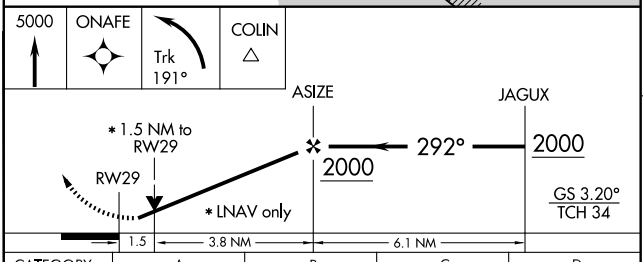
LEONARDTOWN/ ST. MARY'S COUNTY RGNL (2W6)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting note received, use Patuxent River altimeter setting and increase all DA 31 feet and all MDA 40 feet. Baro-VNAV and VDP NA when using Patuxent River altimeter setting.

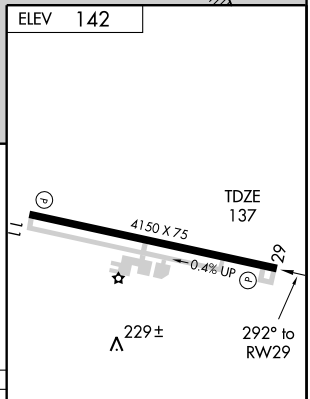
MISSED APPROACH: Climb to 5000 direct ONAFE and left turn via track 191° to COLIN and hold, continue climb-in-hold to 5000.

AWOS-3	PATUXENT APP CON ★	UNICOM
119.575	121.0 250.3	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	480-1¼	343 (400-1¼)	NA	
LNAV/VNAV DA	610-1¾	473 (500-1¾)	NA	
LNAV MDA	620-1	483 (500-1)	NA	
CIRCLING	660-1	518 (600-1)	NA	

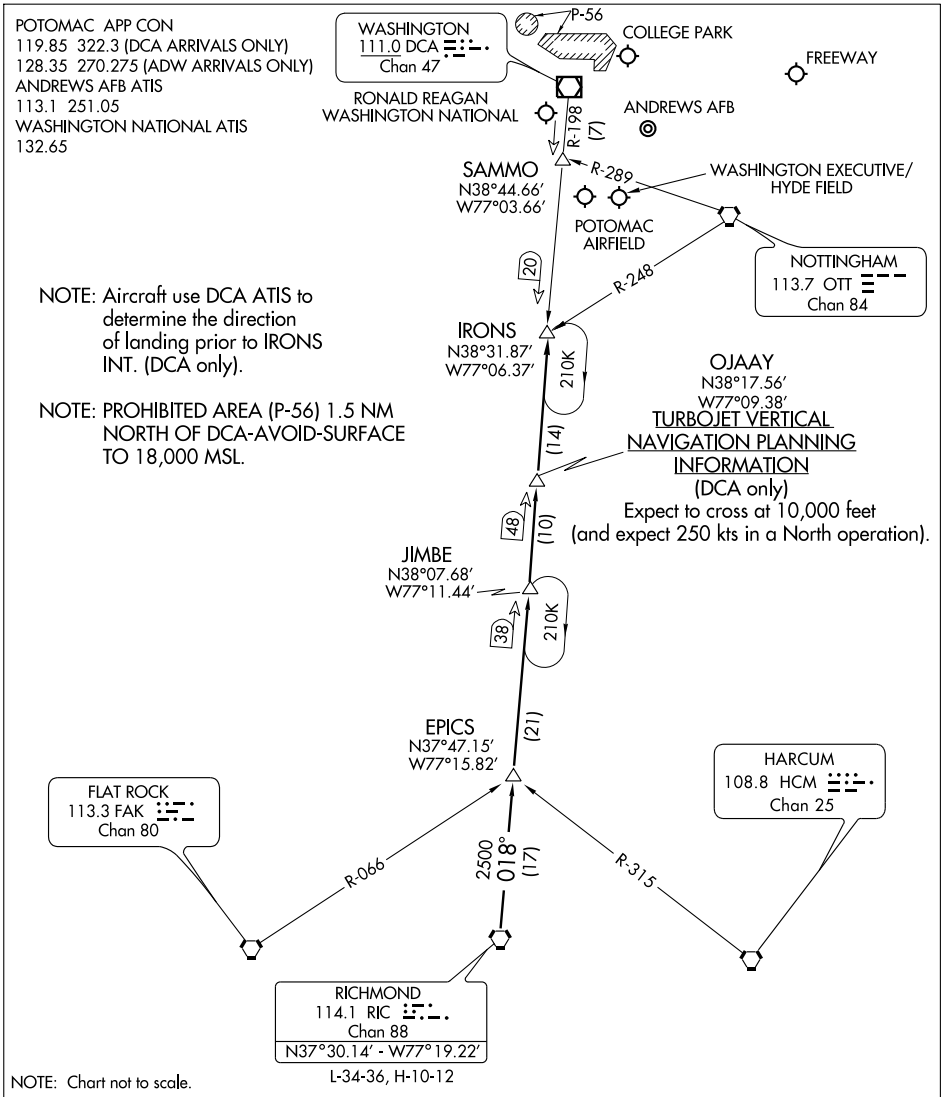


REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

NE-3. 03 JUN 2010 to 01 JUL 2010

IRONS FOUR ARRIVAL

WASHINGTON, DC



RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence. . . .

. . . .From over IRONS INT:
Ronald Reagan Washington National Airport (DCA only):
LANDING SOUTH: Then via DCA R-198 to SAMMO INT, heading for vectors to the final approach course.
LANDING NORTH: Expect vectors to final approach course.
All other airports: Expect vectors.

APP CRS	Rwy Idg	2420
190°	TDZE	168
	Apt Elev	168

RNAV (GPS) RWY 18

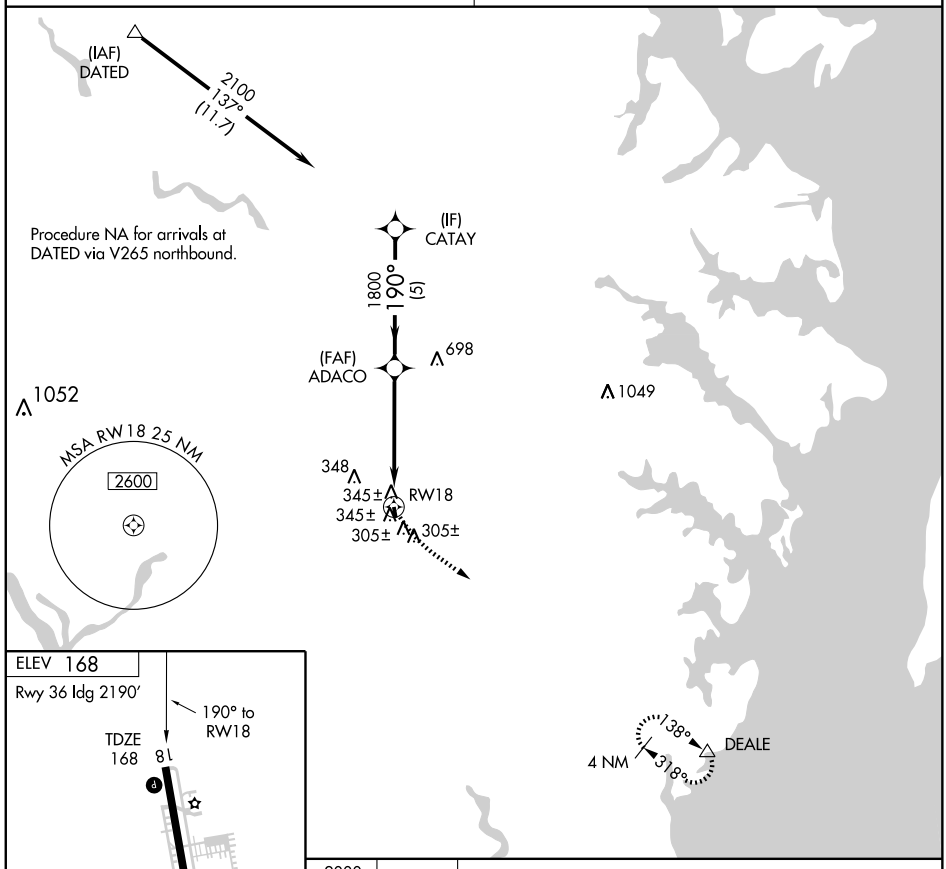
MITCHELLVILLE / FREEWAY (W00)

Use Andrews AFB altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
NA Straight-in and Circling minimums NA at night to Rwy 18.

MISSED APPROACH: Climbing left turn to 2000 direct DEALE WP and hold.

POTOMAC APP CON ★
119.3 335.5

UNICOM
123.075 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	760-1 592 (600-1)		NA	
CIRCLING	760-1 592 (600-1)		NA	

NE-3. 03 JUN 2010 to 01 JUL 2010

MITCHELLVILLE, MARYLAND AL-6997 (FAA)

APP CRS		
345°	Rwy Idg	2190
	TDZE	168
	Apt Elev	168

RNAV (GPS) RWY 36

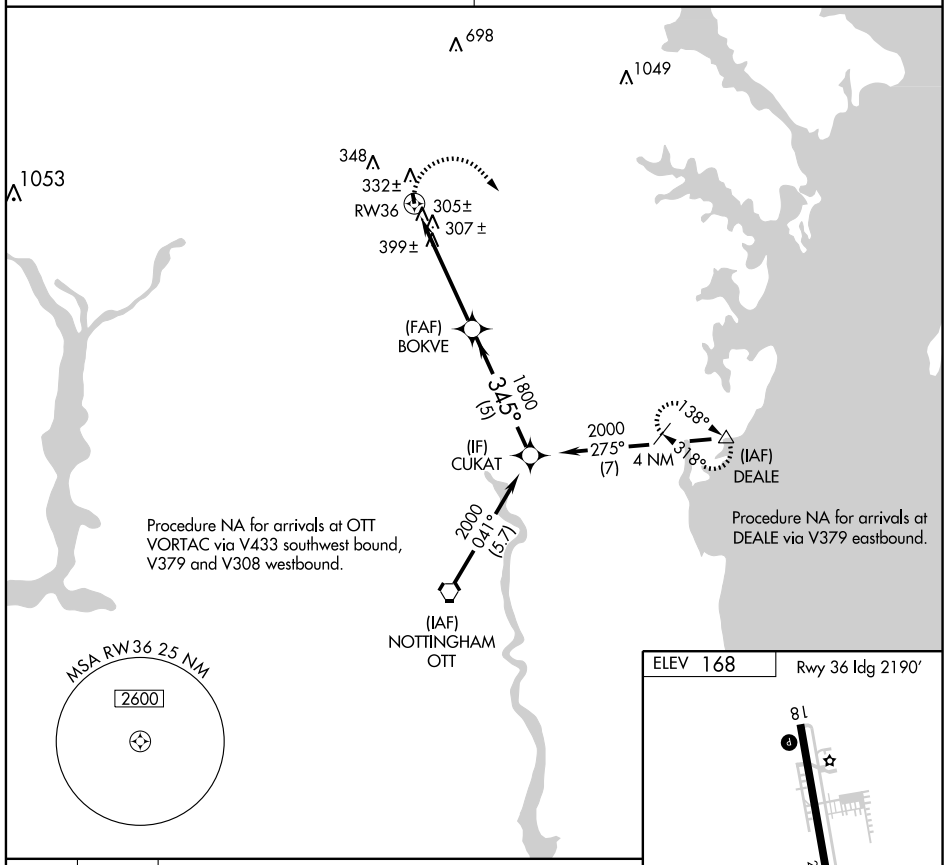
MITCHELLVILLE / FREEWAY (W00)

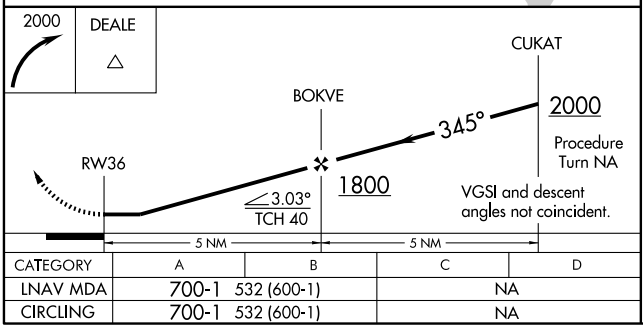
Use Andrews AFB altimeter setting.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA at night to Rwy 18.

MISSED APPROACH: Climbing right turn to 2000 direct DEALE WP and hold.

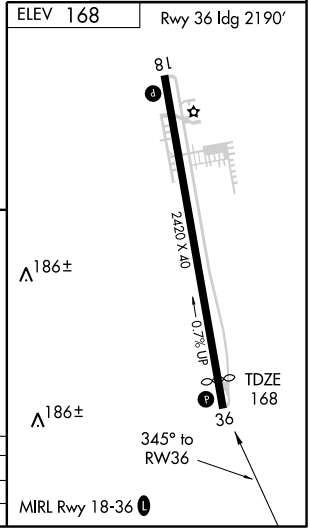
POTOMAC APP CON ★
119.3 335.5

UNICOM
123.075 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	700-1 532 (600-1)		NA	
CIRCLING	700-1 532 (600-1)		NA	



NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5000
088°	TDZE	2933
	Apt Elev	2933

RNAV (GPS) RWY 9

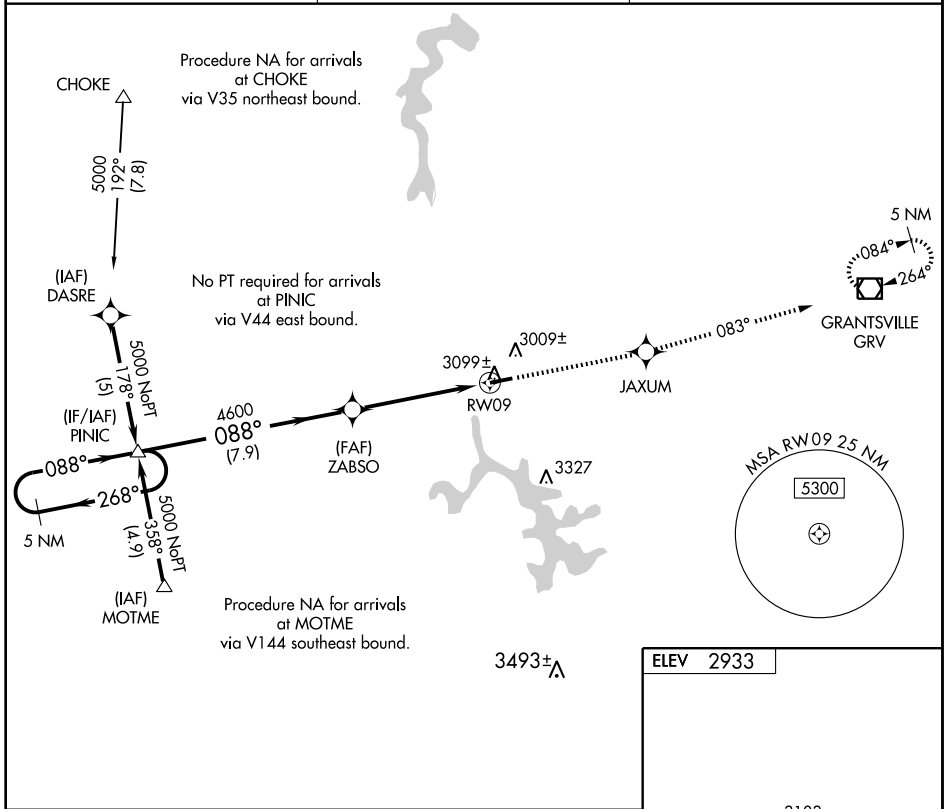
OAKLAND / GARRETT COUNTY (2G4)

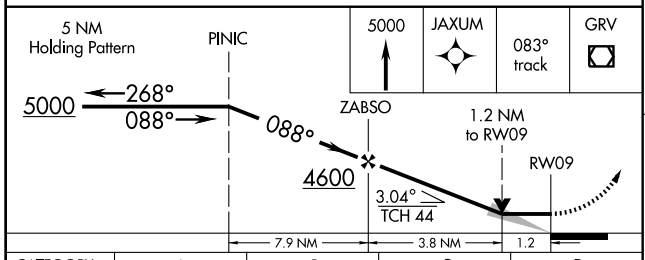
Procedure NA at night. VDP NA when using Morgantown altimeter setting. When local altimeter setting not received, use Morgantown altimeter setting and increase all MDAs 300 feet, LNAV visibility Cat C ¾ mile and Circling Cat B ¾ mile, Cat C ¼ mile. DME/DME RNP-0.3 NA.

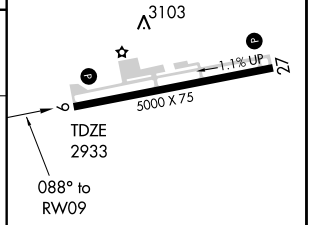
NA

MISSED APPROACH: Climb to 5000 direct JAXUM and via 083° track to GRV VOR/DME and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
120.125	124.4 327.1	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	3360-1	427 (500-1)	3360-1¼ 427 (500-1¼)	NA
CIRCLING	3400-1	467 (500-1)	3400-1½ 467 (500-1½)	NA

REIL Rwys 9 and 27
MIRL Rwy 9-27 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5000
268°	TDZE	2925
	Apt Elev	2933

RNAV (GPS) RWY 27

OAKLAND / GARRETT COUNTY (2G4)

Procedure NA at night. When local altimeter setting not received, use Morgantown altimeter setting and increase all MDAs 300 feet, LNAV visibility Cat C ¾ mile and Circling Cat B ¼ mile, Cat C ¾ mile. VDP NA when using Morgantown altimeter setting. DME/DME RNP-0.3 NA.

NA

MISSED APPROACH: Climbing right turn to 5000 direct GRV VOR/DME and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
120.125	124.4 327.1	123.0 (CTAF) L

Procedure NA for arrivals on IHD VORTAC airway radials 098 CW 109.

INDIAN HEAD
IHD

5000
154°
(24.8)

MSA RW27 25 NM
5300

NoPT for arrival on GRV VOR/DME airway radials 092 CW 130.

3348

5 NM
084°
264°

4500
264°
(8.3)

(IF/IAF)
GRANTSVILLE
GRV

3039±

3099±

268°

(FAF)
JAXUM

RW27

ELEV 2933

3103

1.1% UP

5000 X 75

TDZE
2925

268° to
RW27

5000	GRV

5 NM
Holding Pattern

VOR/DME

084°
264°
5000

1.3 NM
to RW27

JAXUM

264°

RW27

268°

4500

3.04°
TCH 45

1.3 | 3.6 NM | 8.3 NM

CATEGORY	A	B	C	D
LNAV MDA	3340-1 415 (500-1)		3340-1¼ 415 (500-1¼)	NA
CIRCLING	3400-1 467 (500-1)		3400-1½ 467 (500-1½)	NA

REIL Rwys 9 and 27
MIRL Rwy 9-27 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VOR/DME GRV	APP CRS	Rwy Idg	5000
112.3	264°	TDZE	2925
Chan 70		Apt Elev	2933

VOR RWY 27

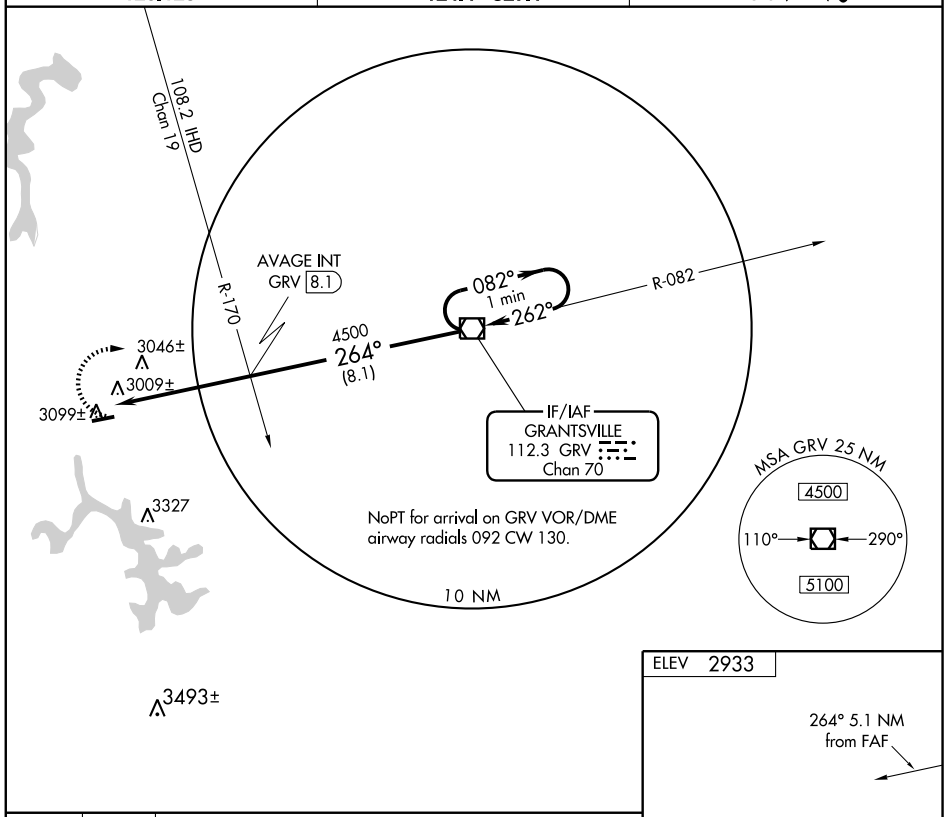
OAKLAND/GARRETT COUNTY (2G4)

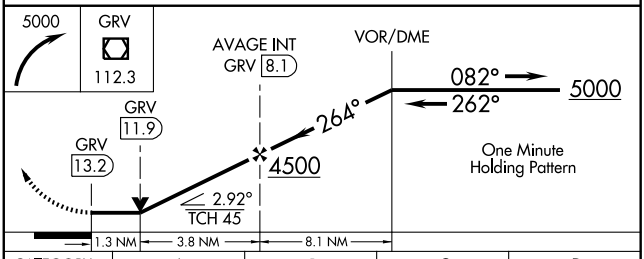
When local altimeter setting not received, use Morgantown altimeter setting and increase all MDAs 300 feet, S-27 visibility Cat C ¾ mile and Circling Cat B ¼ mile, Cat C ¾ mile. VDP NA when using Morgantown altimeter setting.

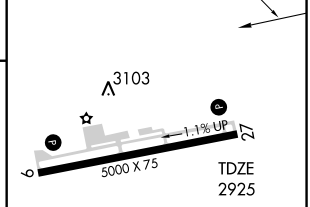
NA

MISSED APPROACH: Climbing right turn to 5000 direct GRV VOR/DME and hold.

AWOS-3	CLEVELAND CENTER	UNICOM
120.125	124.4 327.1	123.0 (CTAF) L







REIL Rwys 9 and 27
MIRL Rwy 9-27 L

CATEGORY	A	B	C	D
S-27	3340-1	415 (500-1)	3340-1¼ 415 (500-1¼)	NA
CIRCLING	3400-1	467 (500-1)	3400-1½ 467 (500-1½)	NA

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

NE-3. 03 JUN 2010 to 01 JUL 2010

OCEAN CITY, MARYLAND

AL-5284 (FAA)

LOC I-OXB	APP CRS	Rwy Idg 4072
109.15	145°	TDZE 11
		Apt Elev 11

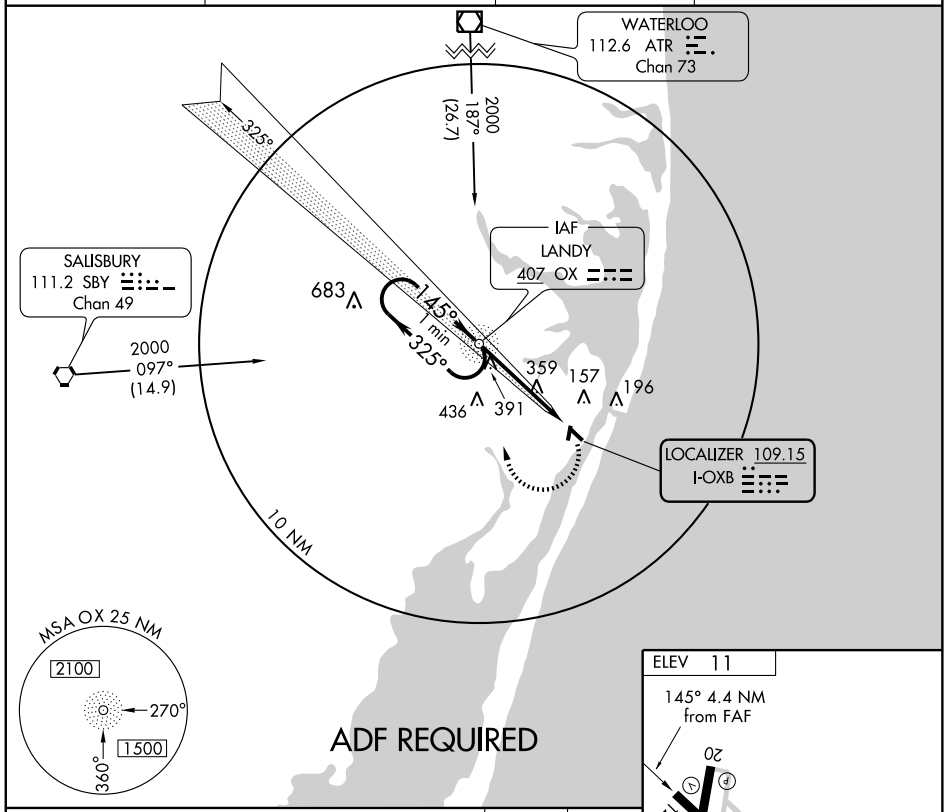
LOC RWY 14

OCEAN CITY MUNI (OXB)

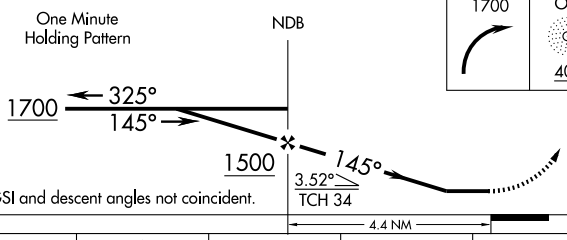
NA

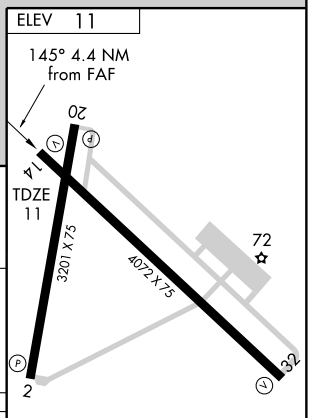
MISSED APPROACH: Climbing right turn to 1700 direct OX NDB and hold.

ASOS	PATUXENT APP CON ★	CLNC DEL	UNICOM
119.025	127.95 314.0	121.75	123.05 (CTAF) L



ADF REQUIRED





MIRL Rwys 2-20 and 14-32 L

CATEGORY	A	B	C	D
S-14	700-1	689 (700-1)	700-2 689 (700-2)	700-2¼ 689 (700-2¼)
CIRCLING	700-1	689 (700-1)	700-2 689 (700-2)	720-2¼ 709 (800-2¼)

FAF to MAP 4.4 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

NE-3, 03 JUN 2010 to 01 JUL 2010

OCEAN CITY, MARYLAND

AL-5284 (FAA)

RNAV (GPS) RWY 2

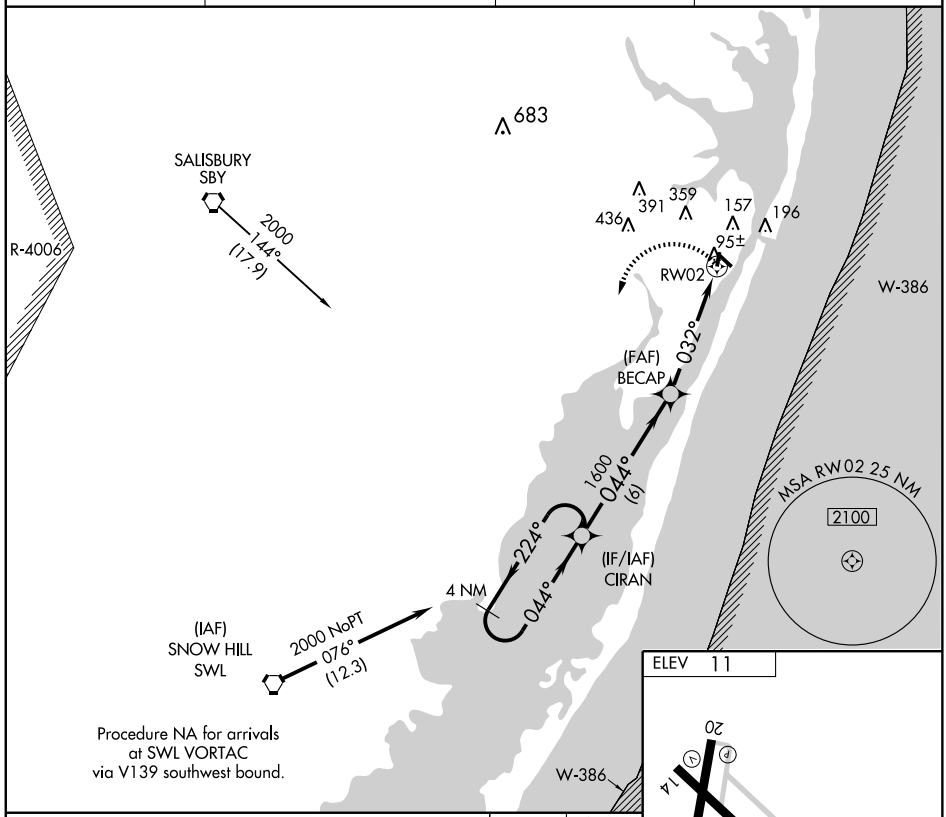
OCEAN CITY MUNI (OXB)

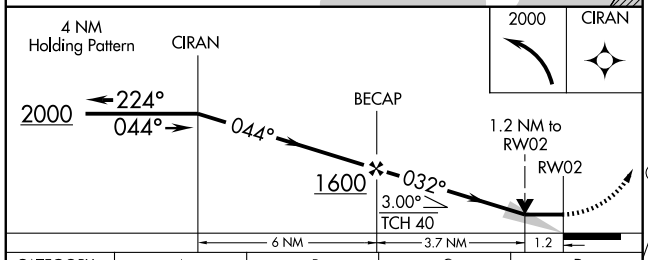
APP CRS	Rwy ldg	3201
032°	TDZE	11
	Apt Elev	11

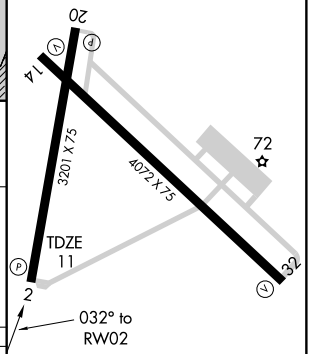
If local altimeter setting not received, use Salisbury altimeter setting and increase all MDAs 60 feet. DME/DME RNP-0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing left turn to 2000 direct CIRAN and hold.

ASOS	PATUXENT APP CON ★	CLNC DEL	UNICOM
119.025	127.95 314.0	121.75	123.05 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	420 - 1	409 (500-1)	420 - 1¼ 409 (500-1¼)	NA
CIRCLING	480 - 1	469 (500-1)	660 - 1¾ 649 (700-1¾)	NA

MIRL Rwys 2-20 and 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

OCEAN CITY, MARYLAND

AL-5284 (FAA)

RNAV (GPS) RWY 14

OCEAN CITY MUNI (OXB)

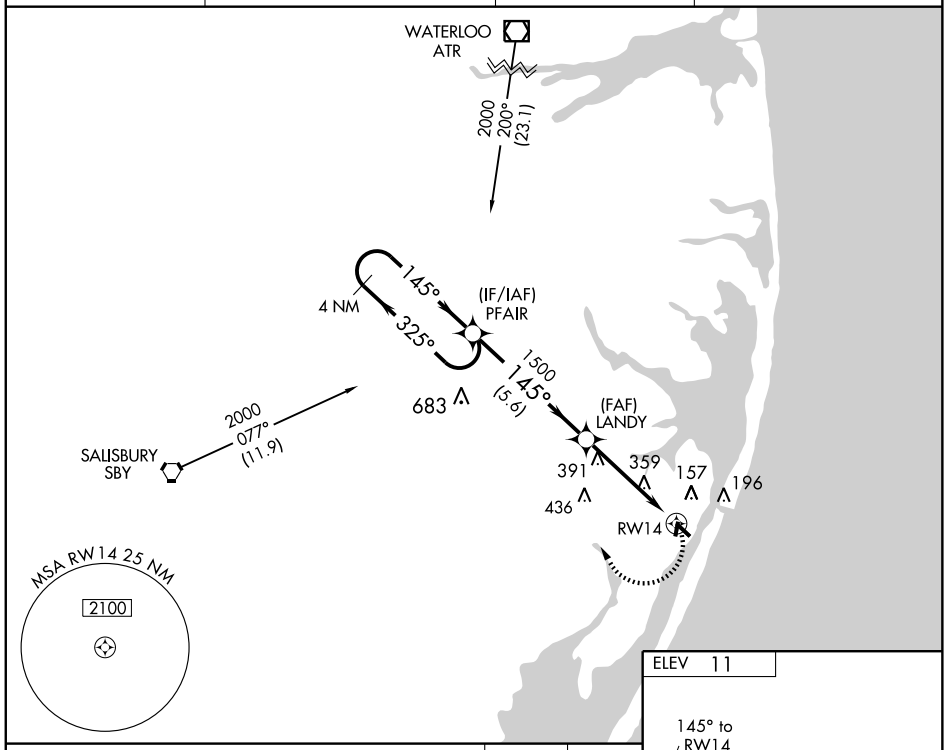
APP CRS	Rwy Idg	4072
145°	TDZE	11
	Apt Elev	11

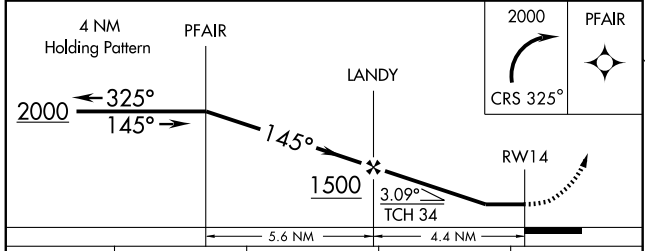
GPS or RNP -0.3 required.
DME/DME RNP -0.3 NA.

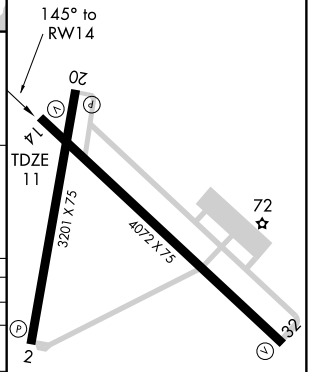
NA

MISSED APPROACH: Climbing right turn to 2000 via 325° course to PFAIR and hold.

ASOS	PATUXENT APP CON ★	CLNC DEL	UNICOM
119.025	127.95 314.0	121.75	123.05 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	700-1 689 (700-1)		700-2 689 (700-2)	700-2¼ 689 (700-2¼)
CIRCLING	700-1 689 (700-1)		700-2 689 (700-2)	720-2¼ 709 (800-2¼)

MIRL Rwys 2-20 and 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

OCEAN CITY, MARYLAND

AL-5284 (FAA)

RNAV (GPS) RWY 32

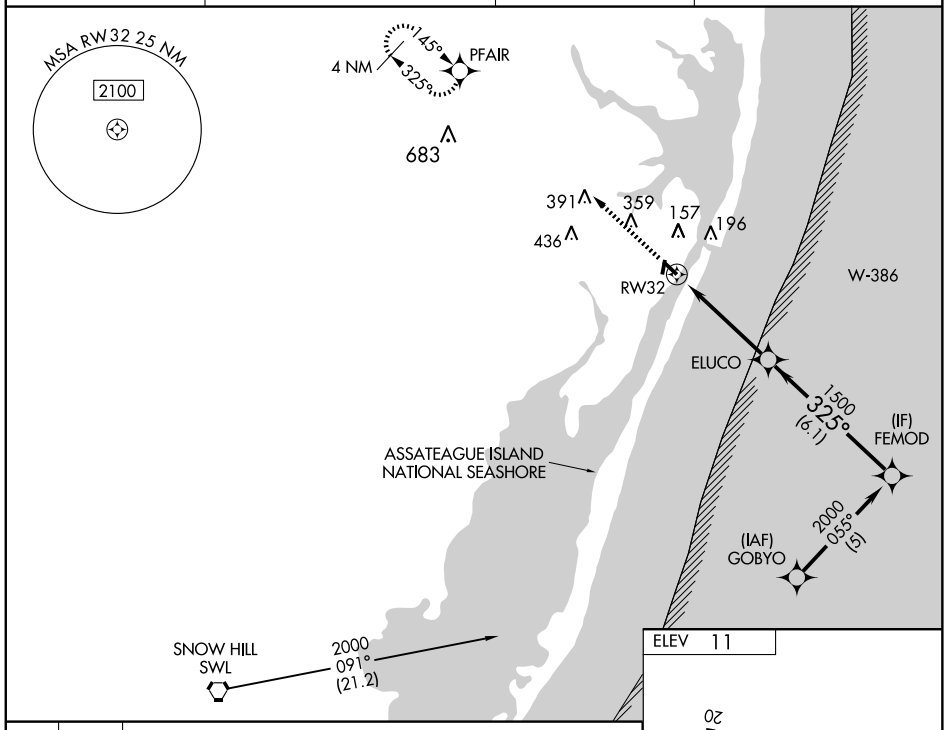
OCEAN CITY MUNI (OXB)

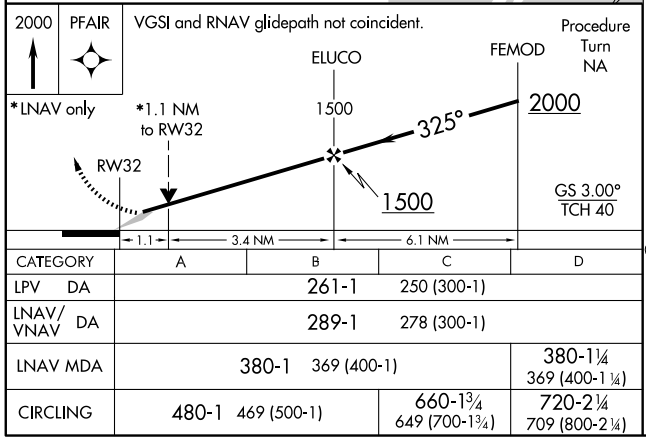
WAAS CH 40413 W32A	APP CRS 325°	Rwy ldg 4072	TDZE 11	Apt Elev 11

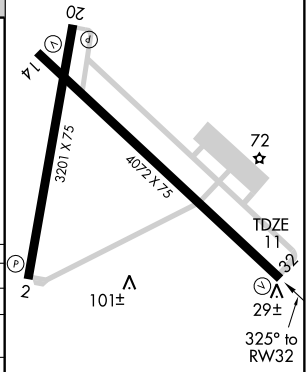
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Baro-VNAV and VDP NA when using Salisbury altimeter setting. When local altimeter setting not received, use Salisbury altimeter setting and increase all DA 48 feet and all MDA 60 feet, increase LNAV/VNAV all Cats, LNAV Cats C/D and Circling Cats C/D visibilities ¼ mile.

MISSED APPROACH: Climb to 2000 direct PFAIR and hold.

ASOS	PATUXENT APP CON ★	CLNC DEL	UNICOM
119.025	127.95 314.0	121.75	123.05 (CTAF) L







CATEGORY	A	B	C	D
LPV DA		261-1	250 (300-1)	
LNAV/VNAV DA		289-1	278 (300-1)	
LNAV MDA	380-1	369 (400-1)		380-1¼ 369 (400-1¼)
CIRCLING	480-1	469 (500-1)	660-1¾ 649 (700-1¾)	720-2¼ 709 (800-2¼)

MIRL Rwys 2-20 and 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

OCEAN CITY, MARYLAND

AL-5284 (FAA)

VORTAC SBY	APP CRS	Rwy Idg	N/A
111.2	108°	TDZE	N/A
Chan 49		Apt Elev	11

VOR-A

OCEAN CITY MUNI (OXB)

When local altimeter setting not received, use Salisbury altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing left turn to 2000 via SBY R-094 to CBEAV Int/11.7 DME and hold.

ASOS	PATUXENT APP CON ★	CLNC DEL	UNICOM
119.025	127.95 314.0	121.75	123.05 (CTAF) L

1048

WATERLOO
112.6 ATR
Chan 73

2000
191°
(29.4)

R-202

R-191

10 NM

IAF
SALISBURY
111.2 SBY
Chan 49

CBEAV
SBY 11.7

094°

274°

R-094

2000 NoPT
108°
(7.4)

R-108

1500
108°
(6)

391

436

359

157

196

108°
1 min
288°

R-4006

LEWES INT
SBY 7.4

KEYEL
(IAF) SBY 18.2

CODNI INT
SBY 13.4

R-025

R-034

W-386

2000 NoPT
025°
(17.3)

MSA SBY 25 NM
180°
2100
090°
1700

IAF
SNOW HILL
112.4 SWL
Chan 71

ELEV 11

108° 4.8 NM
from FAF

20

14

3201 X 75

4072 X 75

72

32

2

MIRL Rwys 2-20 and 14-32 L

One Minute
Holding Pattern

CODNI INT
SBY 13.4

1800

288°

108°

1500

108°

KEYEL
SBY 18.2

4.8 NM

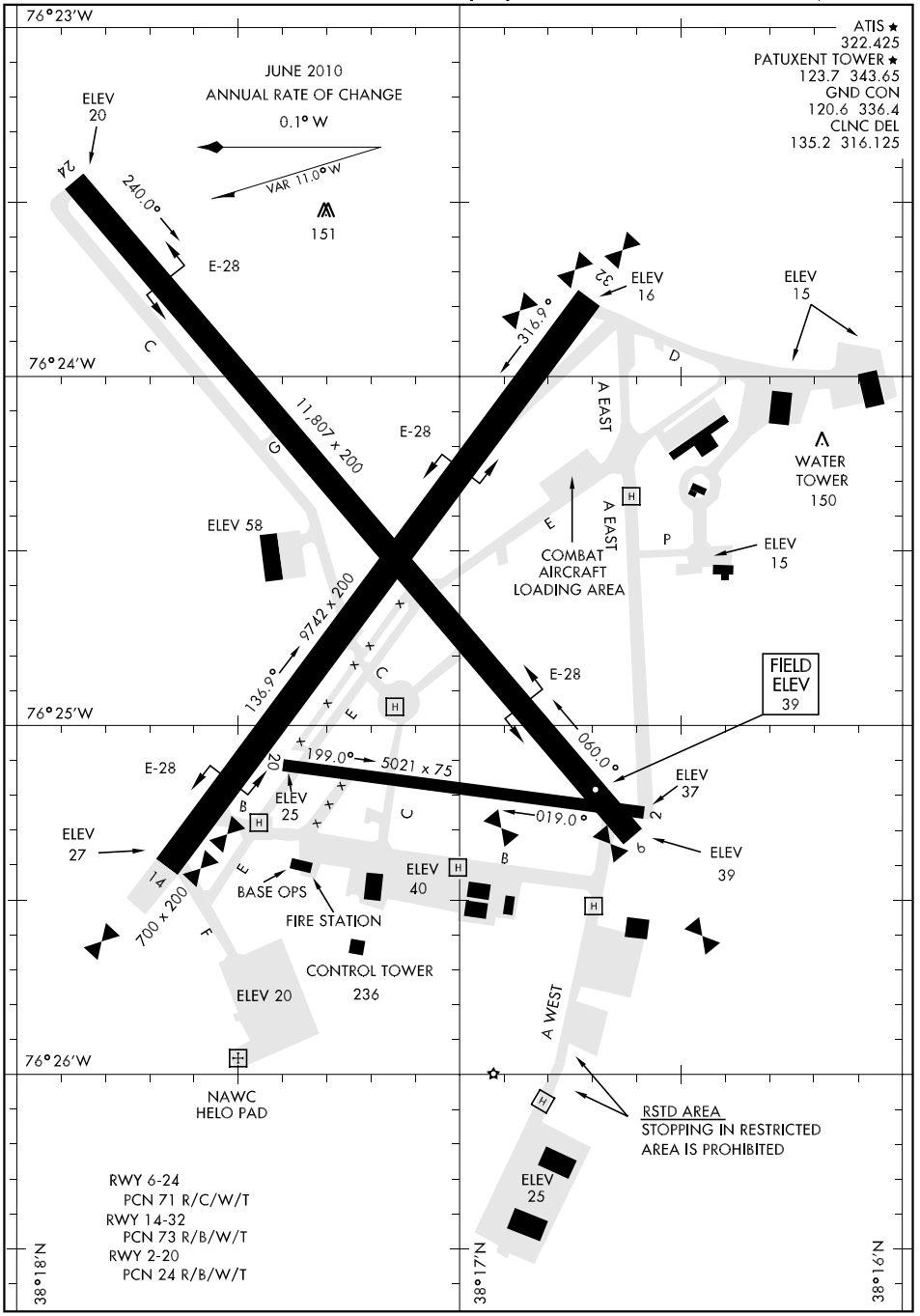
2000
SBY R-094
111.2

CBEAV

CATEGORY	A	B	C	D
CIRCLING	860-1 849 (900-1)	860-1¼ 849 (900-1¼)	860-2½ 849 (900-2½)	860-2¾ 849 (900-2¾)

FAF to MAP 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36

NE-3. 03 JUN 2010 to 01 JUL 2010



NE-3, 03 JUN 2010 to 01 JUL 2010

HI-TACAN RWY 6

VORTAC PXT	APCH CRS	Rwy ldg 11,807
117.6	065°	TDZE 39
Chan 123		Arpt Elev 39

JAL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

▼ * When ALS inop, increase vis CAT C to 1¼ miles, CAT D to 1½ miles, CAT E to 1¾ .

ALSF-1

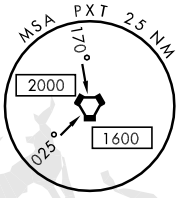
MISSED APPROACH: Climb to 2500 direct PXT VORTAC, then via PXT R-050 to SPRIG and hold.

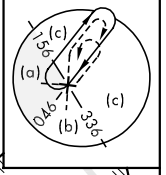
ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

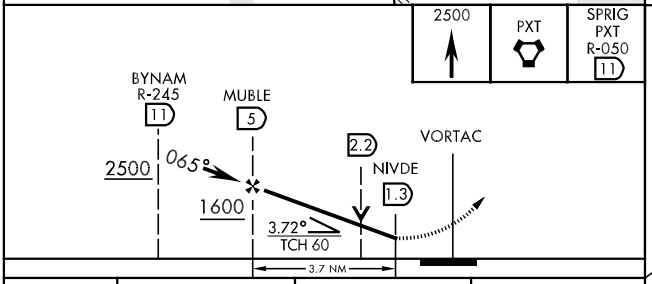
** For LOCAL USE ONLY 15,000 or as assigned.

*** 12,000 or as assigned.

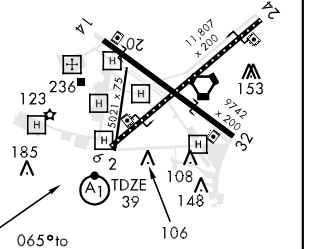
† 10,000 or as assigned.







ELEV 39



065° to VORTAC

CATEGORY	C	D	E
S-6 *	500- ¾ 461 (500-¾)	500-1 461 (500-1)	500-1¼ 461 (500-1¼)
CIRCLING	560-1½ 521 (600-1½)	600-2 561 (600-2)	640-2¼ 601 (700-2¼)

HIRL all Rwys

NE-3, 03 JUN 2010 to 01 JUL 2010

HI-TACAN RWY 14

VORTAC PXT	APCH CRS	Rwy Idg	9472
117.6	127°	TDZE	27
Chan 123		Arpt Elev	39

JAL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

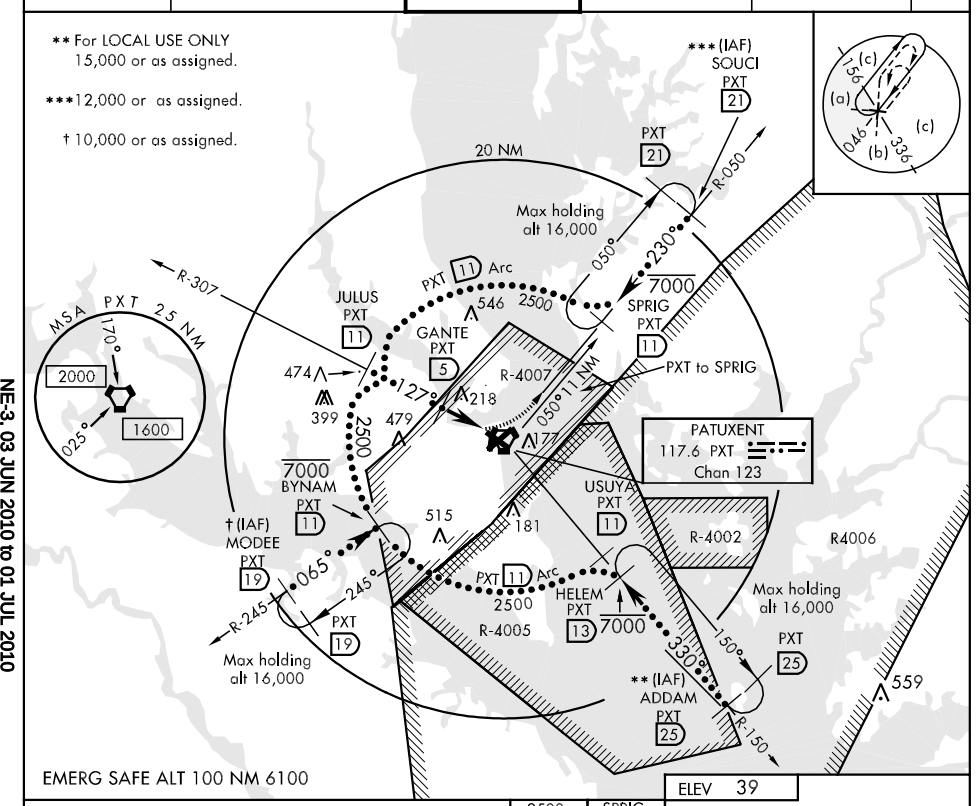
MISSED APPROACH: Climbing left turn to 2500, intercept the PXT R-050 to SPRIG and hold.

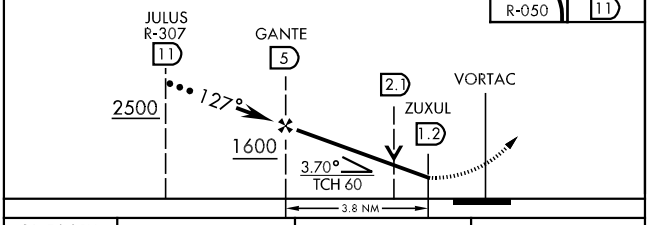
ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

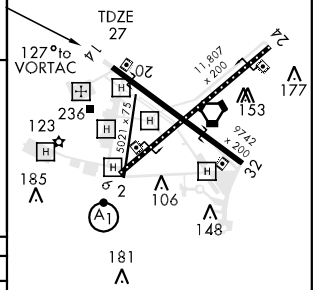
** For LOCAL USE ONLY
15,000 or as assigned.

***12,000 or as assigned.

† 10,000 or as assigned.







CATEGORY	C	D	E
S-14	480-1¼ 453 (500-1¼)	480-1½ 453	(500-1½)
CIRCLING	560-1½ 521 (600-1½)	600-2 561 (600-2)	640-2¼ 601 (700-2¼)

HIRL Rwy 14-32, 6-24

HI-TACAN RWY 24

VORTAC PXT	APCH CRS	Rwy ldg 11,807	JAL-314 [USN]	PATUXENT RIVER NAS (TRAPNELL FIELD)	(KNHK)
117.6 Chan 123	230°	TDZE 20 Arpt Elev 39			

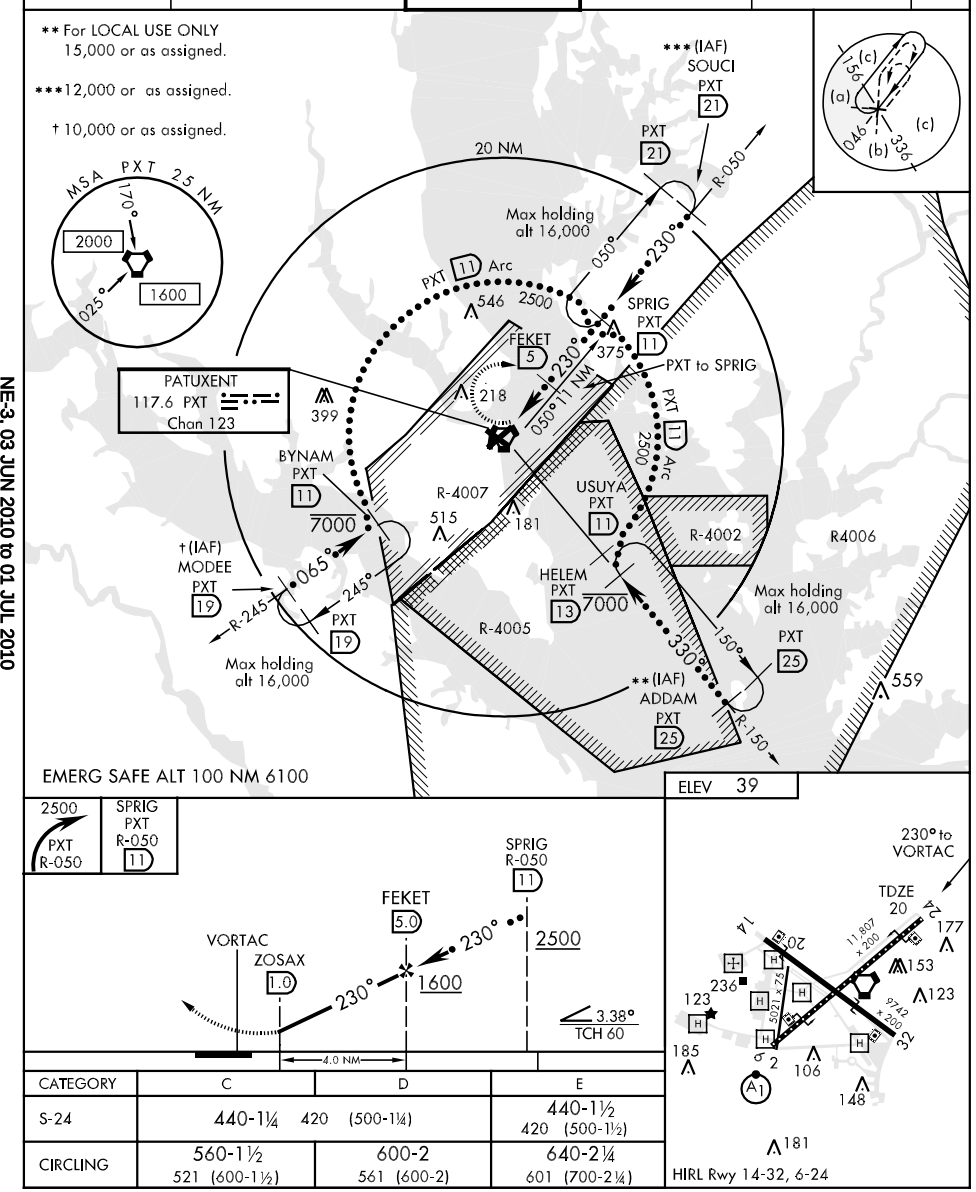
MISSED APPROACH: Climing right turn to 2500, intercept PXT R-050 to SPRIG and hold.

ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

** For LOCAL USE ONLY 15,000 or as assigned.

***12,000 or as assigned.

† 10,000 or as assigned.



CATEGORY	C	D	E
S-24	440-1¼ 420 (500-1¼)		440-1½ 420 (500-1½)
CIRCLING	560-1½ 521 (600-1½)	600-2 561 (600-2)	640-2¼ 601 (700-2¼)

HI-TACAN RWY 32

VORTAC PXT	APCH CRS	Rwy ldg	9742
117.6	330°	TDZE	18
Chan 123		Arpt Elev	39

JAL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

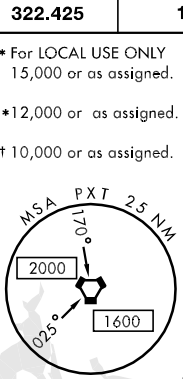
MISSED APPROACH: Climb to 500, then climbing right turn to 2500, intercept PXT R-150 to HELEM and hold.

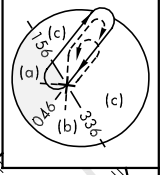
ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

** For LOCAL USE ONLY
15,000 or as assigned.

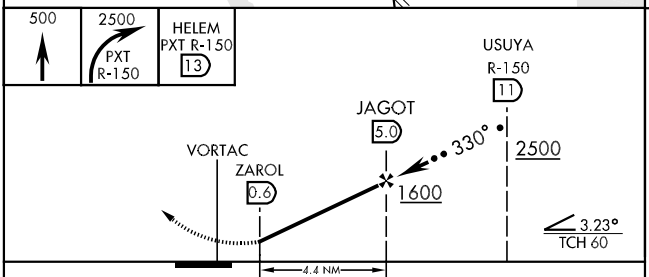
***12,000 or as assigned.

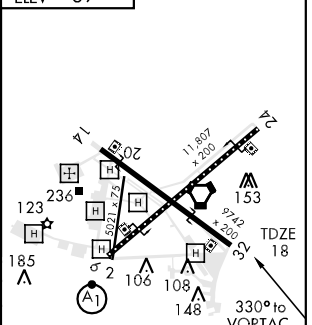
† 10,000 or as assigned.





ELEV 39





CATEGORY	C	D	E
S-32	400-1 382 (400-1)	400-1¼ 382 (400-1¼)	
CIRCLING	560-1½ 521 (600-1½)	600-2 561 (600-2)	640-2¼ 601 (700-2¼)

HIRL Rwy 14-32, 6-24

NE-3, 03 JUN 2010 to 01 JUL 2010

NDB/DME RWY 6

NDB NHK 400	APCH CRS 066°	Rwy ldg 11,807 TDZE 39 Arpt Elev 39

AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

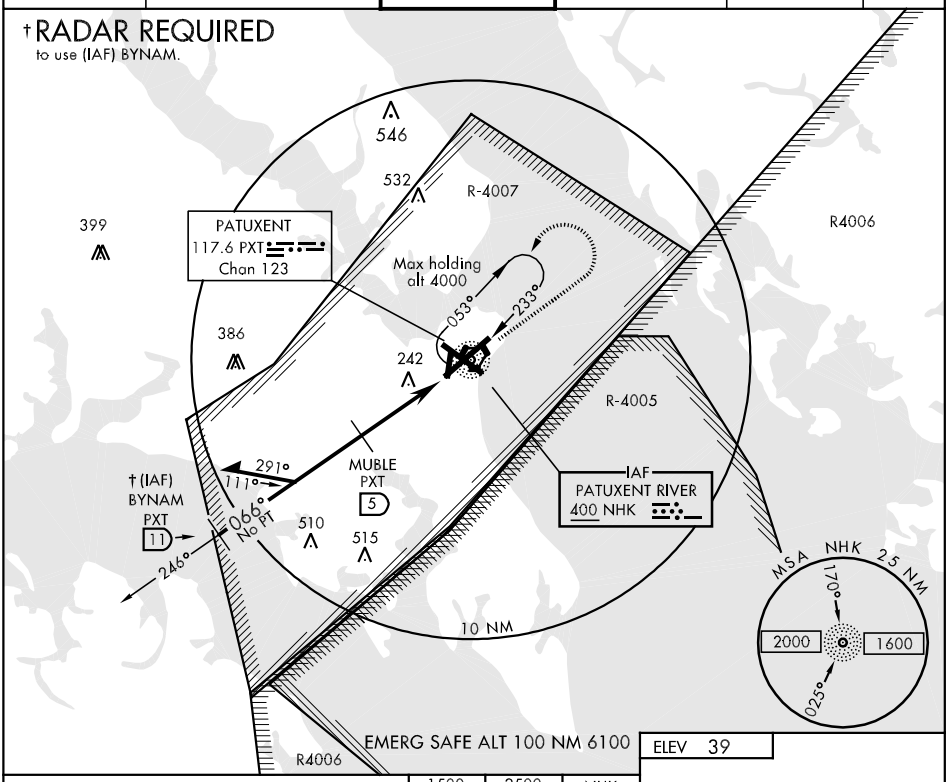
* When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 1½ miles.

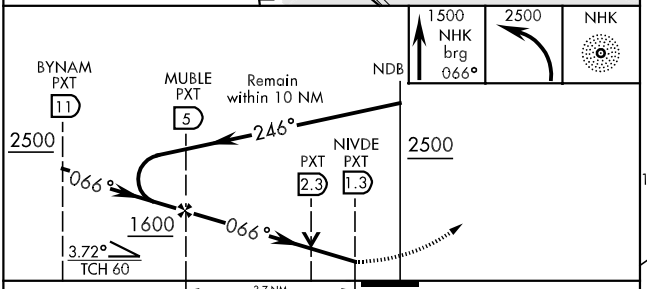
ALSF-1

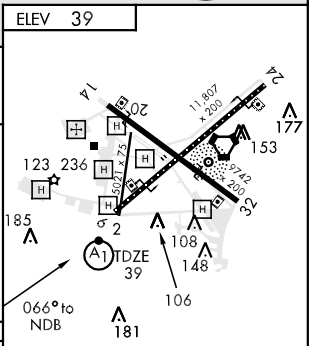
MISSED APPROACH: Climb to 1500 via NHK 066° bearing, then climbing left turn to 2500 direct NHK NDB and hold.

ATIS *	PATUXENT APP/DEP CON	PATUXENT TOWER *	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

† RADAR REQUIRED
to use (IAF) BYNAM.







CATEGORY	A	B	C	D
S-6 *	560-½ 521	(600-½)	560-1 521 (600-1)	560-1¼ 521 (600-1¼)
CIRCLING	560-1 521	(600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

HIRL Rwy 14-32, 6-24

FAF to MAP 3.7 NM					
Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14

RNAV (GPS) RWY 6

APCH CRS	Rwy ldg	11,807
059°	TDZE	39
	Arpt Elev	39

AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD)(KNHK)

* When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 1½ miles.
** When ALS inop, increase vis CAT ABCD to 1¾ miles.

ALSF-1

MISSED APPROACH: Climb to 2500 direct SPRIG and hold.

ATIS *	PATUXENT APP/DEP CON	PATUXENT TOWER *	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

For uncompensated BARO VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F).

DME/DME RNP-0.3 NA.

546

050° 230°

SPRIG

399

R-4007

R4006

386

RW06

242

ITIBE

2500

240°

(11.8) PXT to WETUT

(FAF) YAUNS

059°

1600

059°

(5.9)

510

515

(IAF) WETUT

Max holding alt 8000

059°

239°

6 NM

MSA RW6 25 NM

2000

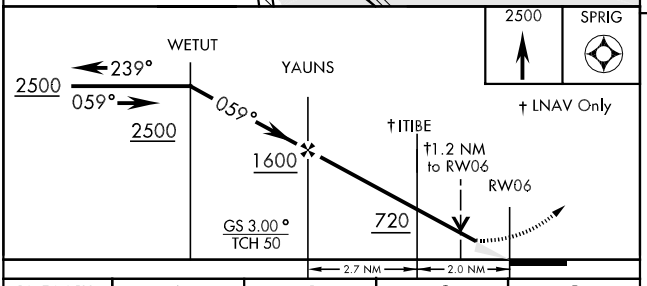
R-4005

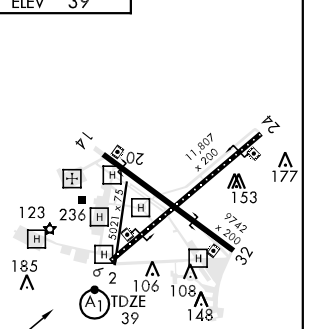
PATUXENT

117.6 PXT

Chan 123

EMERG SAFE ALT 100 NM 6100





CATEGORY	A	B	C	D
LNAV MDA*	460-½	421 (500-½)	460-¾ 421 (500-¾)	460-1 421 (500-1)
LNAV/ ** VNAV DA	540-1¼	501 (600-1¼)		
CIRCLING	540-1¾ 501 (600-1¾)	560-1¾ 521 (600-1¾)		600-2 561 (600-2)

HIRL Rwy 14-32, 6-24

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 14

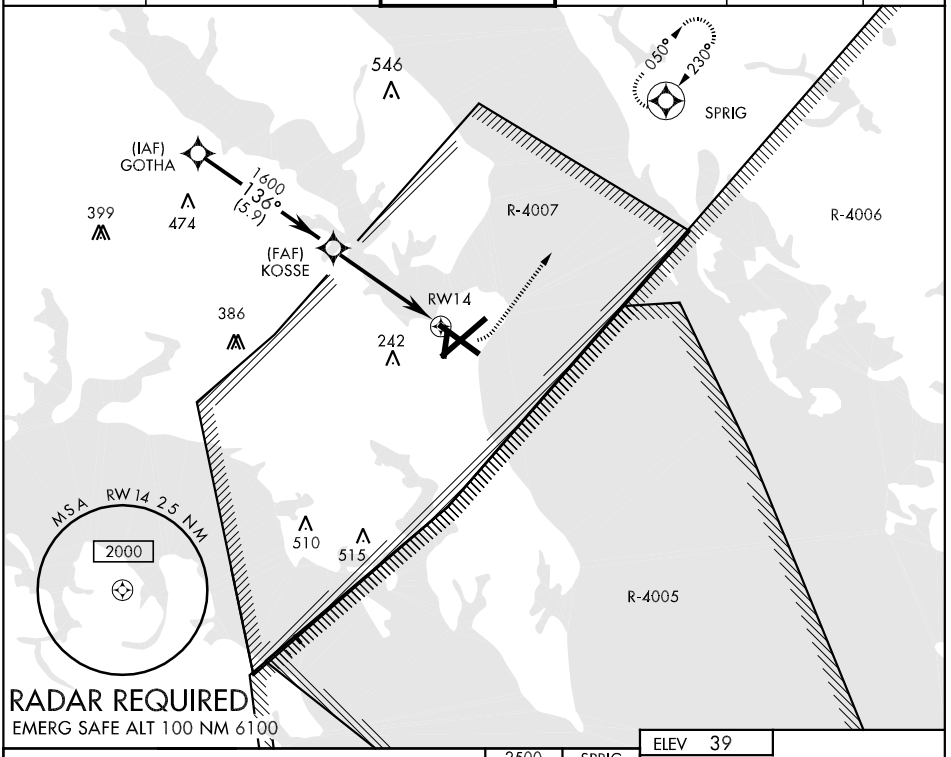
APCH CRS	Rwy Idg	TDZE	Arpt Elev
136°	9742	27	39

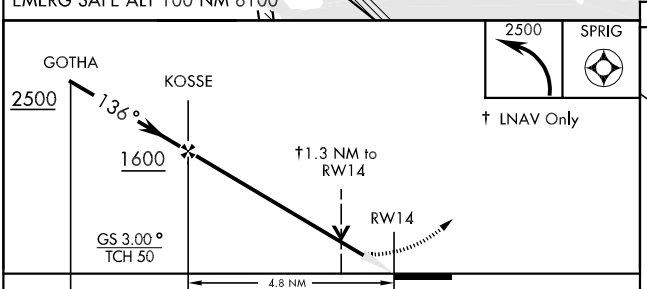
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD)(KNHK)

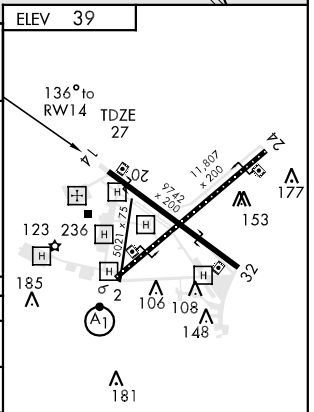
For uncompensated BARO VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 2500 direct SPRIG and hold.

ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	







CATEGORY	A	B	C	D
LNAV/ VNAV DA	400-1 373 (400-1)			400-1¼ 373 (400-1¼)
LNAV MDA	500-1 473 (500-1)		500-1¼ 473 (500-1¼)	500-1½ 473 (500-1½)
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 24

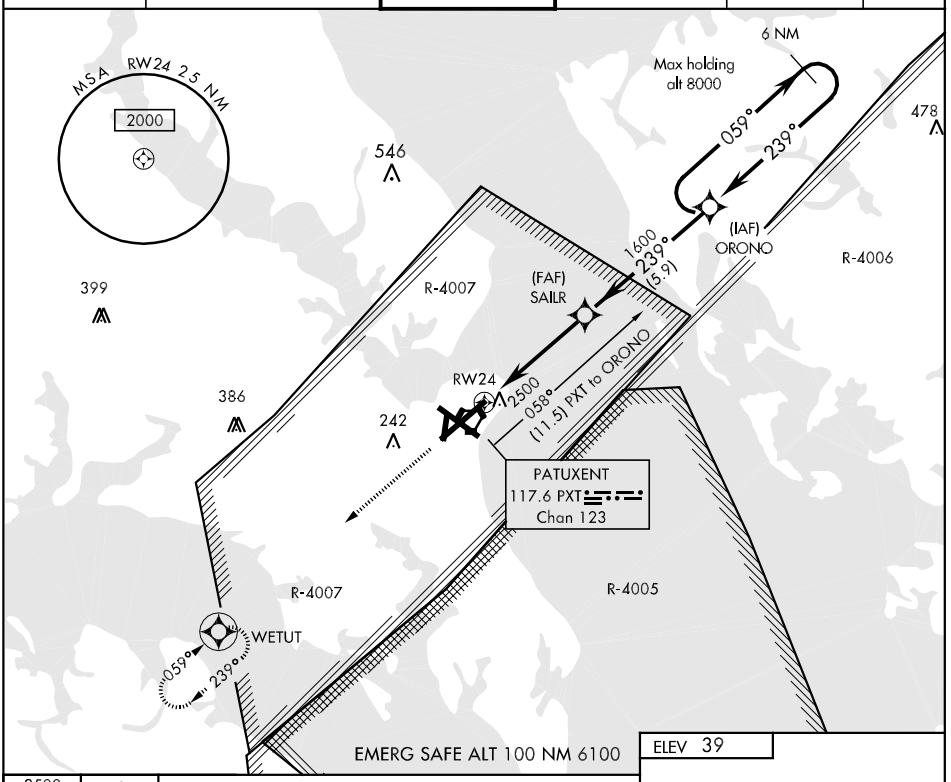
APCH CRS	Rwy ldg	11,807
239°	TDZE	20
	Arpt Elev	39

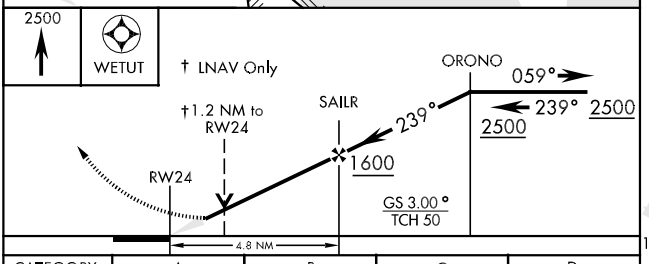
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

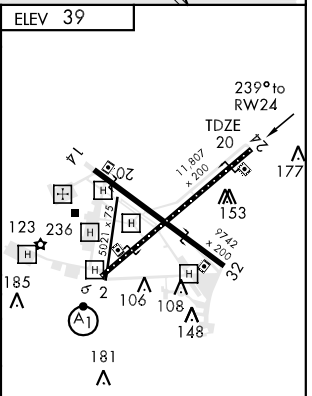
For uncompensated BARO VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500 direct WETUT and hold.

ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	







HIRL Rwy 14-32, 6-24

CATEGORY	A	B	C	D
LNAV/ VNAV DA	340-1 320 (400-1)			340-1¼ 320 (400-1¼)
LNAV MDA	440-1 420 (500-1)		440-1¼ 420 (500-1¼)	
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

NE-3, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 32

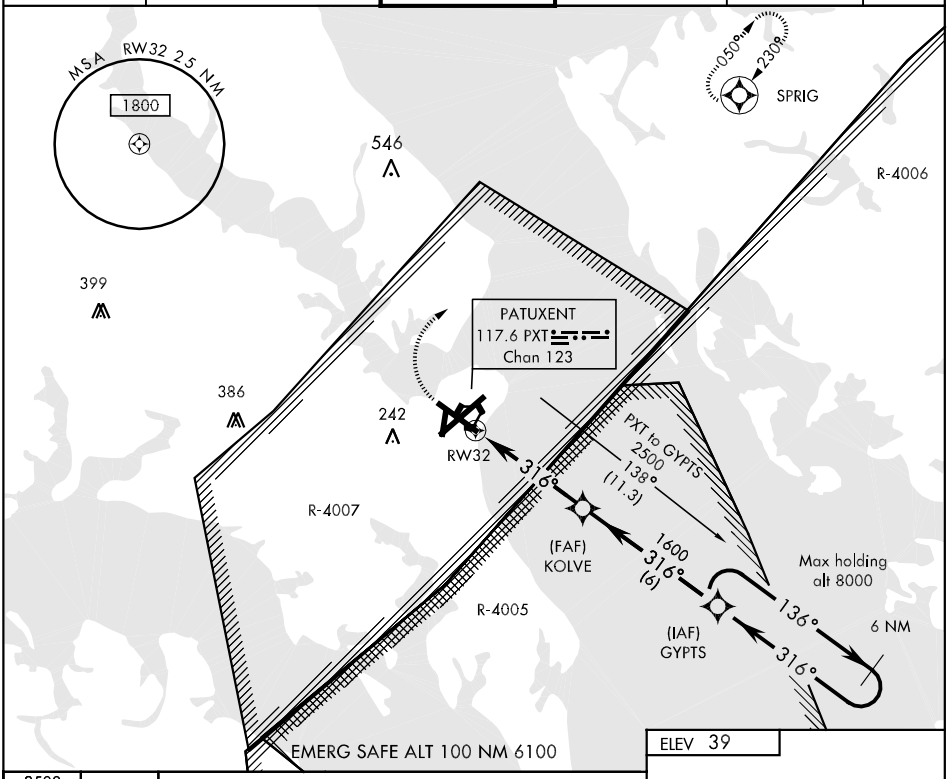
APCH CRS	Rwy ldg	9742
316°	TDZE	18
	Arpt Elev	39

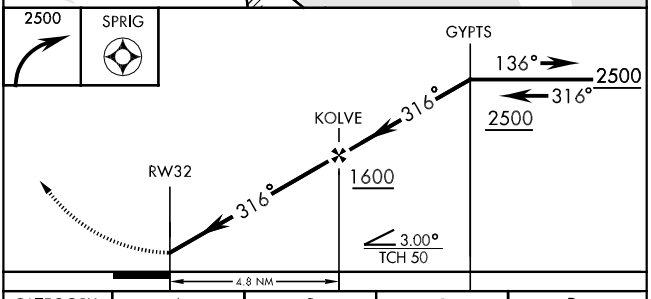
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD)(KNHK)

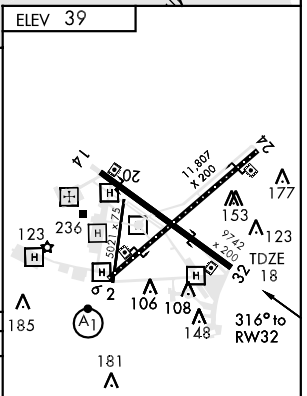
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 2500 direct SPRIG and hold.

ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	



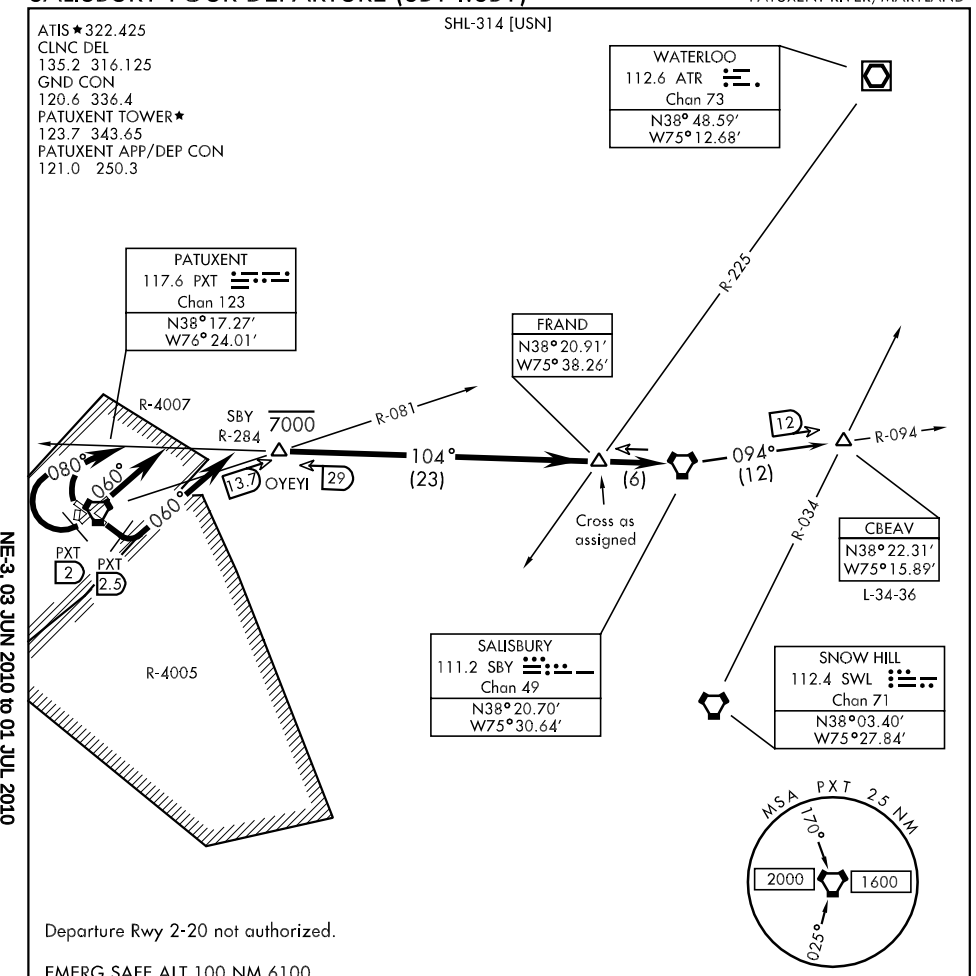




CATEGORY	A	B	C	D
LNAV MDA	420-1 402 (500-1)		420-1¼ 402 (500-1¼)	
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

HIRL Rwy 14-32, 6-24

SALISBURY-FOUR DEPARTURE (SBY4.SBY)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 6: Climb to 6000 via heading 060°, thence...

TAKE-OFF RWY 14: Climbing left turn to 6000 via heading 060° within PXT VORTAC 2.5 DME, thence...

TAKE-OFF RWY 24: Climb on heading 240° to PXT 2 DME, then climbing right turn to 6000 via heading 080°, thence...

TAKE-OFF RWY 32: Climbing right turn to 6000 via heading 080°, thence...

Intercept SBY VORTAC R-284, then via SBY R-284 to SBY. Cross FRAND as assigned. Then via assigned route or transition..

CBEAV TRANSITION (SBY4.CBEAV): Via SBY R-094 to CBEAV.

SALISBURY-FOUR DEPARTURE (SBY4.SBY)

PATUXENT RIVER, MARYLAND

SWABY-SIX DEPARTURE (SWABY6.SWABY)

ATIS ★322.425
CLNC DEL
135.2 316.125
GND CON
120.6 336.4
PATUXENT TOWER★
123.7 343.65
PATUXENT APP/DEP CON
121.0 250.3

SHL-314 [USN]

Rwy	Knots	60	120	180	240	300	360
ⓐ	V/V(fpm)	600	1200	1800	2400	3000	3600

ATC Climb Rate to 15,000.
ⓐ EDDYS trns only

Departure Rwy 2-20 not authorized.

Minimum filing alt 10,000'.

NOTTINGHAM
113.7 OTT
Chan 84
N38° 42.35'
W76° 44.69'

PATUXENT
117.6 PXT
Chan 123
N38° 17.27'
W76° 24.01'

CASANOVA
116.3 CSN
Chan 110
N38° 38.47'
W77° 51.93'
L-29-34-36, H-10

R-4007
180°
210°
3
250°
JUMIX
13
7000
ZIRAT
13
R-4005
R-131
311°
(78)
R-223
203°
25
R-101
281°
(78)

GORDONSVILLE
115.6 GVE
Chan 103
N38°00.81'
W78°09.18'
L-36, H-10

UNNAC
SWABY
N37°52.88'
W76° 31.12'
V286
227°
(44)
(28)
206°
R-047
R-026
STEIN
L-35-36
R-323
21
UCINE

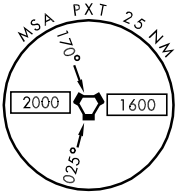
HOPEWELL
112.0 HPW
Chan 57
N37°19.73'
W77°06.96'
L-34-36, H-10-12

J61
184°
(70)
R-211
30
OTT
R-184
EDDYS
H-10

CAPE CHARLES
112.2 CCV
Chan 59
N37°20.85'
W75°59.86'

HARCUM
108.8 HCM
Chan 25
N37°26.92'
W76° 42.68'
L-34-36, H-10-12

NORFOLK
116.9 ORF
Chan 116
N36°53.52'
W76°12.02'



ATC BRIEF
REQUIRED
135.2 384.4

TACAN REQUIRED

EMERG SAFE ALT 100 NM 6100

Chart not to scale

NE-3, 03 JUN 2010 to 01 JUL 2010

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 6: Climb to 3000 via heading 060°, at PXT VORTAC 3 DME turn left direct PXT, thence. . .

TAKE-OFF RWY 14: Climbing right turn to 3000 via heading 250° within PXT 2.5 DME, intercept PXT R-223, thence. . .

TAKE-OFF RWY 24: Climbing left turn to 3000 via heading 210°, intercept PXT R-223, thence. . .

TAKE-OFF RWY 32: Climbing left turn to 3000 via heading 180°, intercept PXT R-223, thence. . .

Via R-223 to JUMIX, PXT R-223/13 DME, then arc CCW SW of PXT via 13 mile arc to ZIRAT, PXT R-203/13 DME, then via PXT R-203 to SWABY, PXT R-203/25 DME, then via assigned transition or expect radar vectors to join assigned route. Cross ZIRAT at or below 7000.

CASANOVA TRANSITION (SWABY6.CSN): Via CSN VORTAC R-131 to CSN.

EDDYS TRANSITION (SWABY6.EDDYS): Via PXT R-203 to UCINE, then via OTT R-184 to EDDYS. Cross SWABY at or above 15,000.

GORDONSVILLE TRANSITION (SWABY6.GVE): Via GVE VORTAC R-101 to GVE.

HARCUM TRANSITION (SWABY6.HCM): Via HCM VORTAC R-026 to HCM.

HOPEWELL TRANSITION (SWABY6.HPW): Via HPW VORTAC R-047 to HPW.

STEIN TRANSITION (SWABY6.STEIN): Via PXT R-203 to UNNAC, then via CCV VORTAC R-323 to STEIN.

NE-3, 03 JUN 2010 to 01 JUL 2010

TACAN RWY 6

VORTAC PXT	APCH CRS	Rwy Idg 11,807
117.6	065°	TDZE 39
Chan 123		Arpt Elev 39

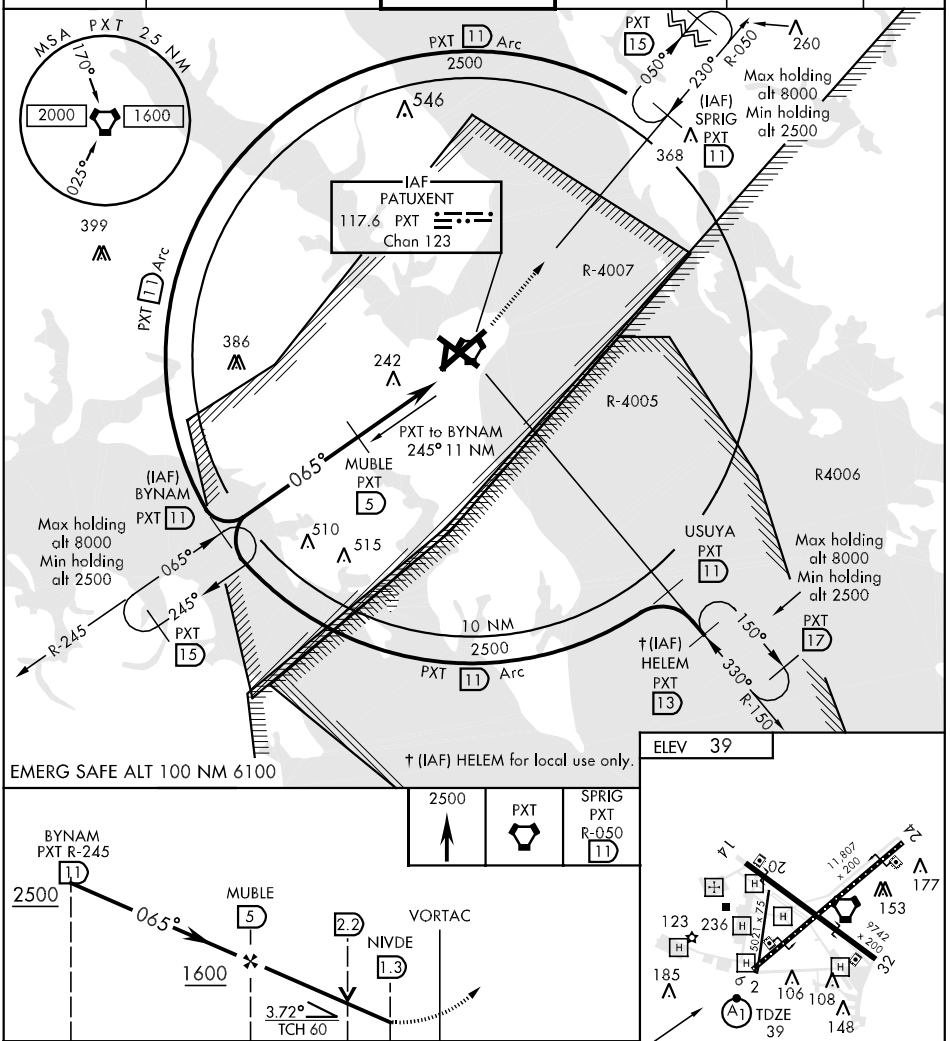
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

* When ALS inop increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 1½ miles.

ALSF-1

MISSED APPROACH: Climb to 2500 direct PXT VORTAC, then via R-050 to SPRIG and hold.

ATIS *	PATUXENT APP/DEP CON	PATUXENT TOWER *	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	



CATEGORY	A	B	C	D
S-6 *	500-½ 461 (500-½)		500-¾ 461 (500-¾)	500-1 461 (500-1)
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

HIRL Rwy 14-32, 6-24

NE-3, 03 JUN 2010 to 01 JUL 2010

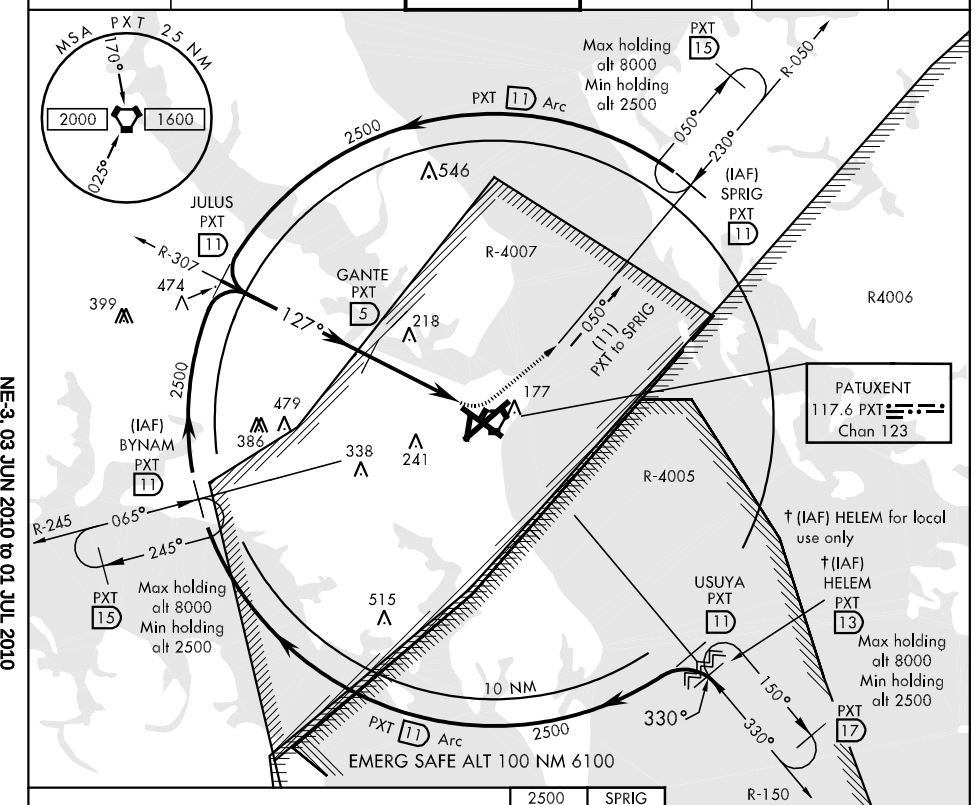
TACAN RWY 14

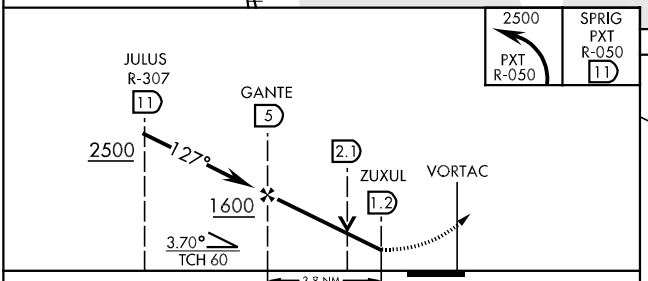
VORTAC PXT	APCH CRS	Rwy Idg	9742
117.6	127°	TDZE	27
Chan 123		Arpt Elev	39

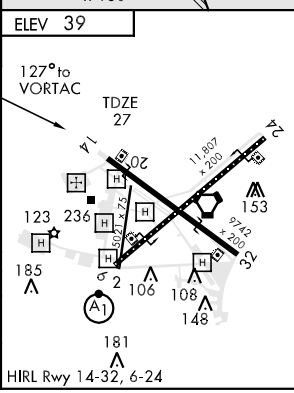
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

MISSED APPROACH: Climbing left turn to 2500 via PXT R-050 to SPRIG and hold.

ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	







CATEGORY	A	B	C	D
S-14	480-1 453 (500-1)		480-1¼ 453 (500-1¼)	480-1½ 453 (500-1½)
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

TACAN RWY 32

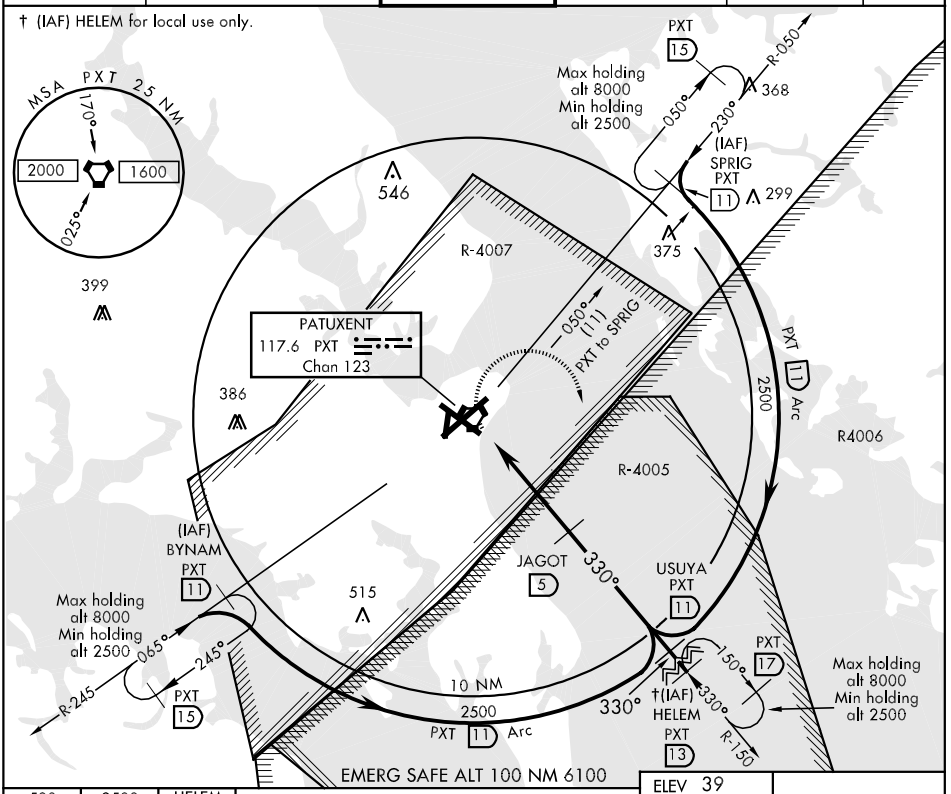
VORTAC PXT	APCH CRS	Rwy ldg	9742
117.6	330°	TDZE	18
Chan 123		Arpt Elev	39

AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

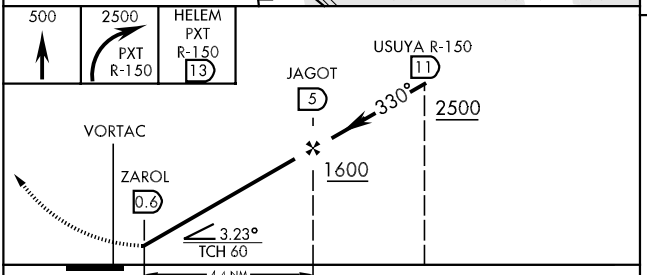
MISSED APPROACH: Climb to 500, then climbing right turn to 2500 to intercept the PXT R-150 to HELEM and hold.

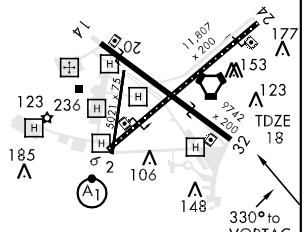
ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

† (IAF) HELEM for local use only.



ELEV 39





CATEGORY	A	B	C	D
S-32	400-1 382 (400-1)			400-1¼ 382 (400-1¼)
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

HIRL Rwy 14-32, 6-24

NE-3, 03 JUN 2010 to 01 JUL 2010

VOR/DME or TACAN RWY 24

VORTAC PXT	APCH CRS	Rwy ldg 11,807
117.6	230°	TDZE 20
Chan 123		Arpt Elev 39

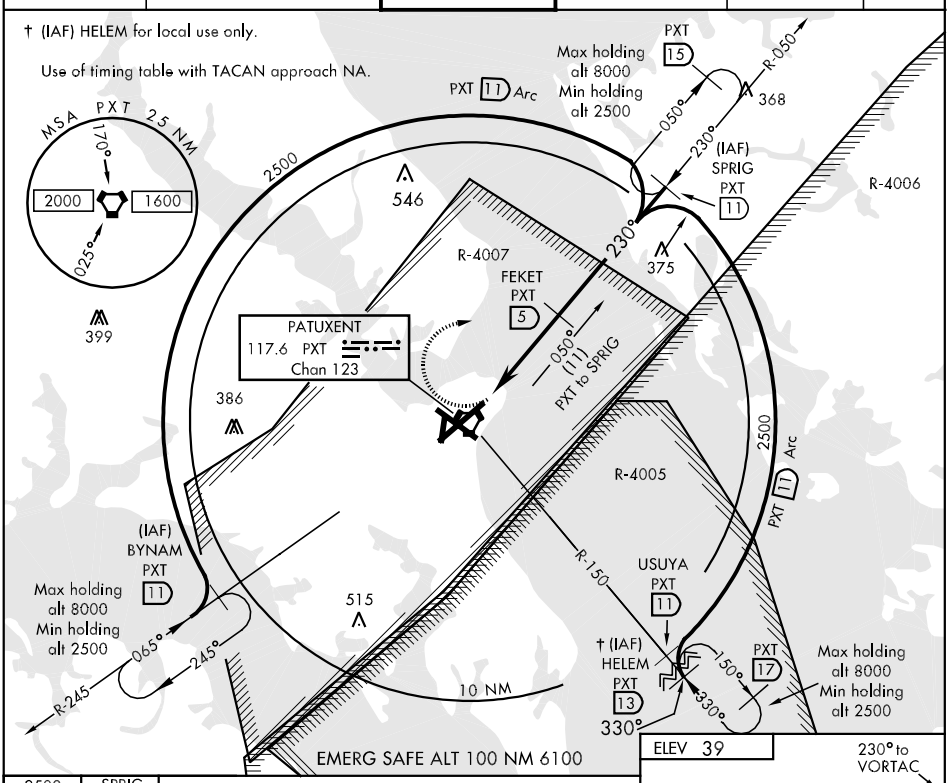
AL-314 [USN] PATUXENT RIVER NAS (TRAPNELL FIELD)(KNHK)

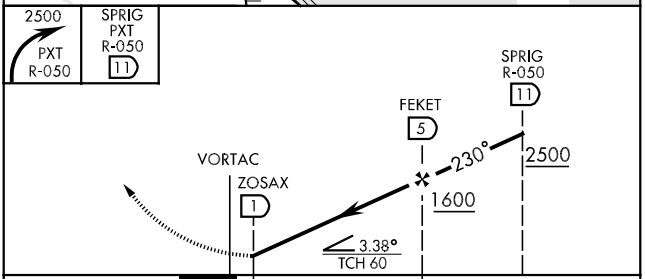
MISSED APPROACH: Climbing right turn to 2500, intercept the R-050 to SPRIG and hold.

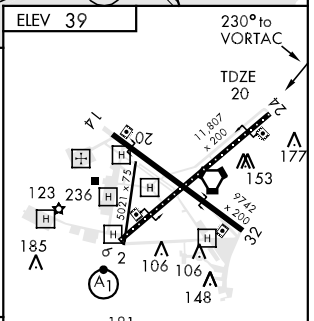
ATIS ★	PATUXENT APP/DEP CON	PATUXENT TOWER ★	GND CON	CLNC DEL	ASR/PAR
322.425	121.0 250.3	123.7 343.65	120.6 336.4	135.2 316.125	

† (IAF) HELEM for local use only.

Use of timing table with TACAN approach NA.







CATEGORY	A	B	C	D
S-24	440-1 420 (500-1)		440-1¼ 420 (500-1¼)	
CIRCLING	540-1 501 (600-1)	560-1 521 (600-1)	560-1½ 521 (600-1½)	600-2 561 (600-2)

FAF to MAP 4.0 NM

Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

RIDGELY, MARYLAND

AL-10248 (FAA)

RNAV (GPS) RWY 12

RIDGELY AIRPARK (RJD)

APP CRS	Rwy Idg	3214
121°	TDZE	64
	Apt Elev	64

If local altimeter setting not received, procedure NA.
Procedure NA at night.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2000 direct PEKME WP and hold.

AWOS-3	POTOMAC APP CON	UNICOM
120.225	124.55 317.425	122.8 (CTAF) L

Procedure NA for arrivals at PALEO via V93 northeast bound, V44 westbound, V312 southwest bound, V170-433 southwest bound.

BROSS

2000 252° (9.7)

Procedure NA for arrivals at BROSS via V268 eastbound.

(IAF) ANAYA

2000 211° (5)

(IAF) PALEO

2000 101° (12.9)

DAKEY

1700 121° (6.1)

(FAF) FIBNA

RW12

2000 054° (7.3)

526

(IAF) GRACO

Procedure NA for arrivals at GRACO via V379 southwest bound.

PEKME

4 NM

121°

301°

MSA RW12 25 NM

2100

2000 326° (15.6)

CHOPS

Procedure NA for arrivals at CHOPS via V308 eastbound.

ELEV 64

121° to RW12

2

3214 X 50

TDZE 64

30

2000 PEKME

Procedure Turn NA

DAKEY

2000

121°

FIBNA

1700

3.04° TCH 40

1 NM to RW12

RW12

6.1 NM | 3.9 NM | 1 NM

CATEGORY	A	B	C	D
LNAV MDA	440-1 376 (400-1)		NA	
CIRCLING	480-1 416 (500-1)	520-1 456 (500-1)	NA	

LIRL Rwy 12-30 L

REIL Rwy 12 and 30 L

NE-3. 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 30

RIDGELY AIRPARK (RJD)

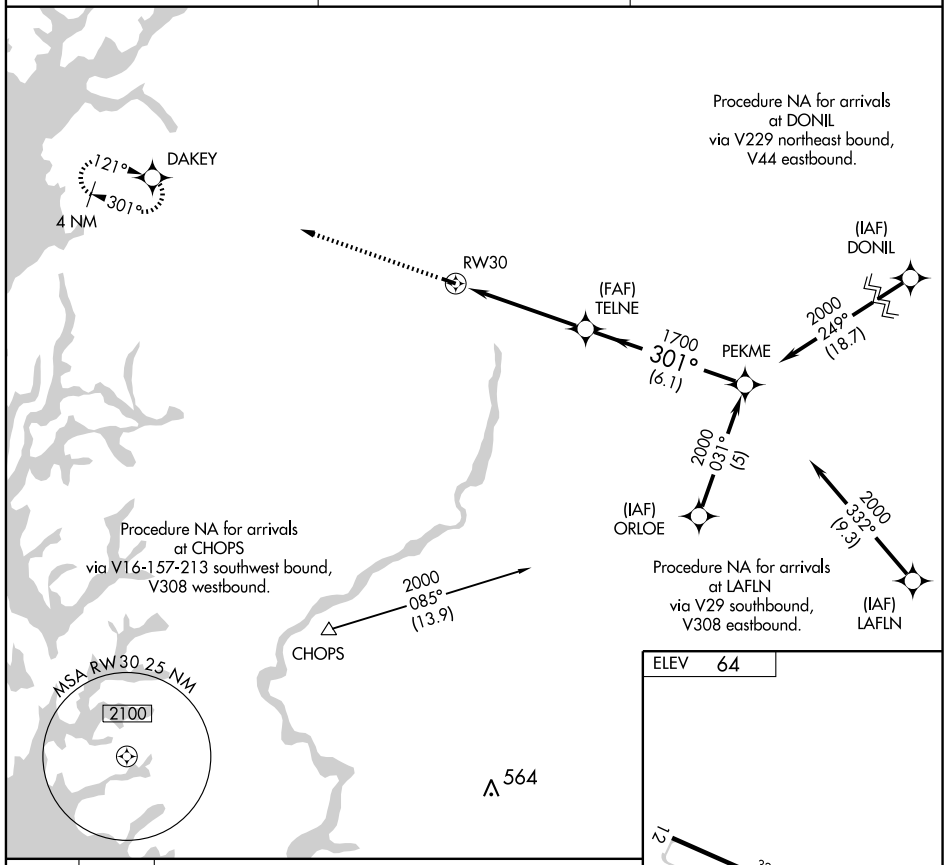
APP CRS	Rwy Idg	3214
301°	TDZE	64
	Apt Elev	64

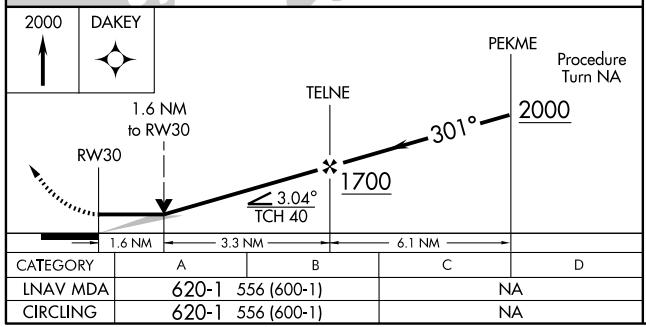
NA

If local altimeter setting not received, procedure NA.
Procedure NA at night.
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2000 direct DAKEY WP and hold.

AWOS-3	DOVER APP CON	UNICOM
120.225	132.425 257.875	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	620-1 556 (600-1)		NA	
CIRCLING	620-1 556 (600-1)		NA	

LIRL Rwy 12-30 L
REIL Rwy 12 and 30 L

NE-3, 03 JUN 2010 to 01 JUL 2010

10098

AIRPORT DIAGRAM

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)
SALISBURY, MARYLAND
AL-977 (FAA)

ASOS
118.325
SALISBURY TOWER★
119.425
GND CON
123.775
CLNC DEL
118.55 (2230-0600)
123.775 (0600-2230)

D

FIELD ELEV 52

38°21.0'N

200 X 140

ELEV 46

14

138.2°

ELEV 50

23

228.2°

VAR 11.5°W

JANUARY 2005
ANNUAL RATE OF CHANGE
0.0° E

TERMINAL

TWR 128

FIRE STATION

6400 X 100

5000 X 100

GENERAL AVIATION PARKING

210 X 140

318.2°

32

048.2°

5

ELEV 45

ELEV 53

38°20.0'N

RWY 5-23
S30, D65, ST83
RWY 14-32
PCN 32 F/B/Y/T
S76, D126, ST146, DT423, DDT749

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

75°31.0'W

75°30.0'W

NE-3, 03 JUN 2010 to 01 JUL 2010

LOC I-SBY	APP CRS	Rwy Idg	5500
108.7	319°	TDZE	52
		Apt Elev	52

ILS or LOC RWY 32

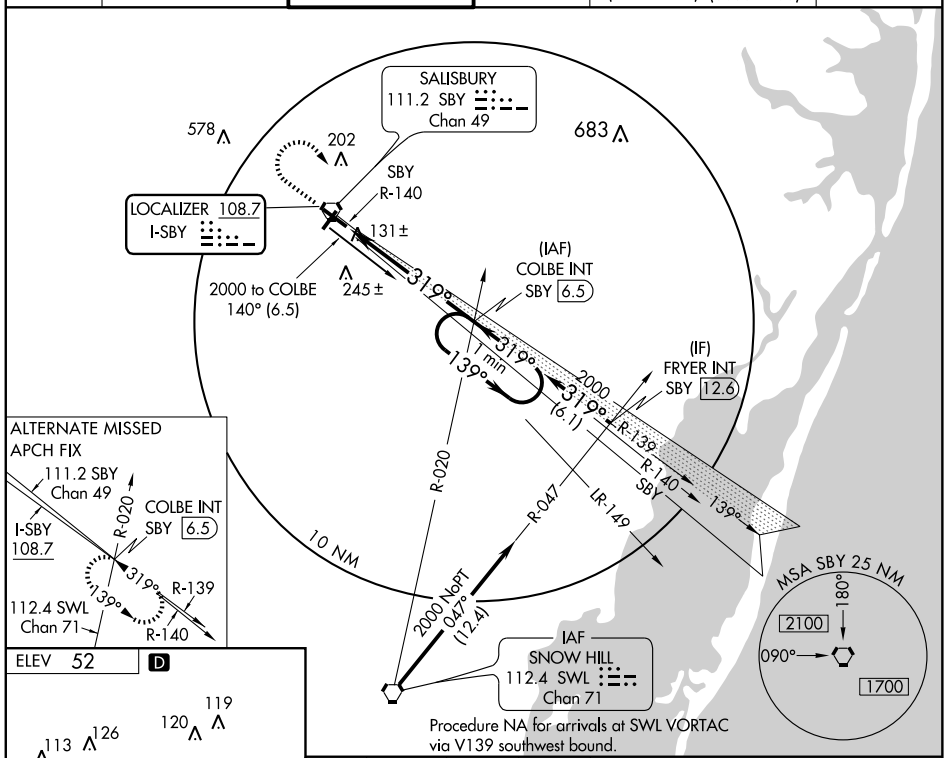
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

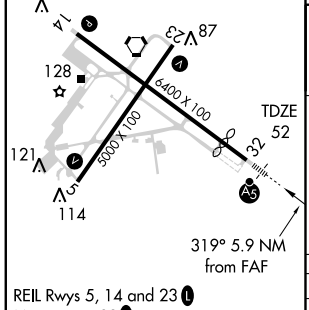
When local altimeter setting not received, use Georgetown altimeter setting and increase DA 52 feet and all MDA 60 feet, and increase S-LOC 32 Cat C visibility ¼ mile.

MALSR

MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via heading 170° and SBY VORTAC R-140 to COLBE INT/SBY 6.5 DME and hold.

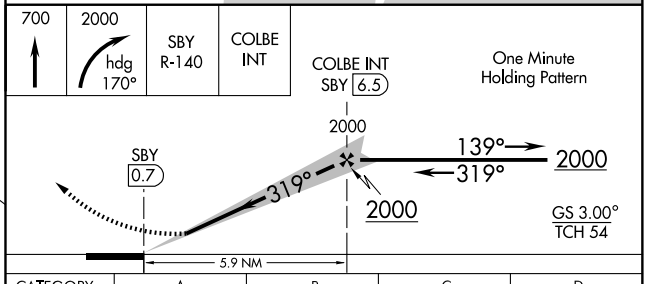
ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 123.775 (2230-0600) (0600-2230)	122.95 A5





REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-ILS 32	252-½ 200 (200-½)			
S-LOC 32	400-½ 348 (400-½)			400-¾ 348 (400-¾)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5000
049°	TDZE	48
	Apt Elev	52

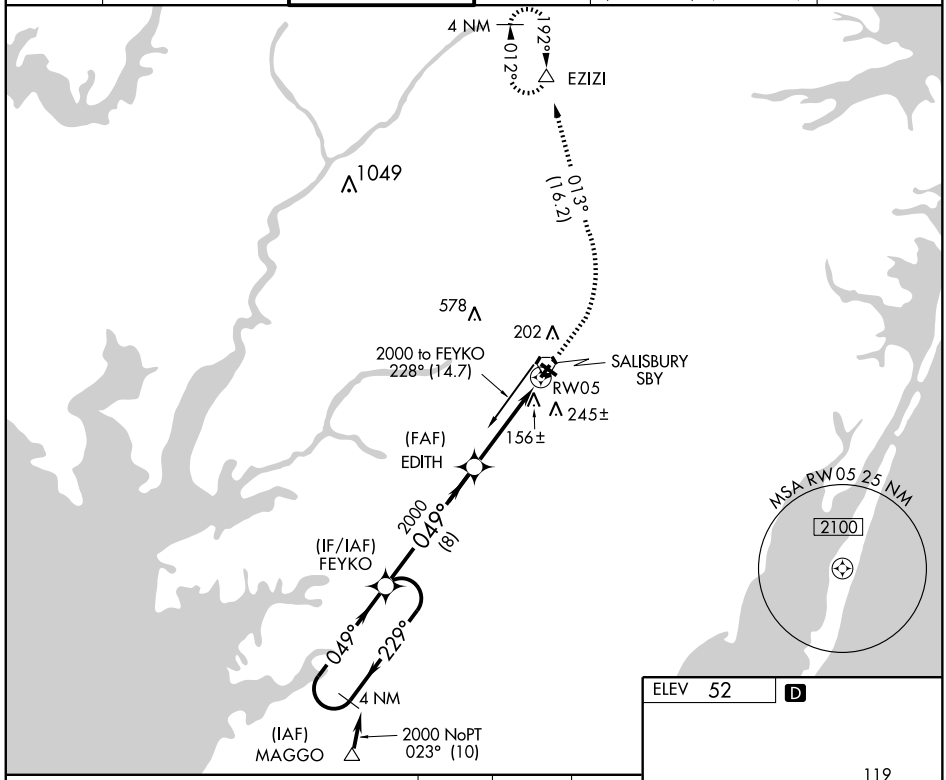
RNAV (GPS) RWY 5

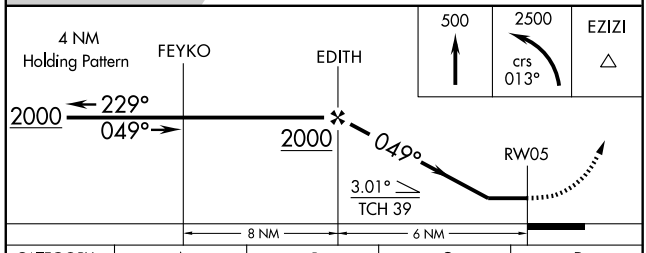
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

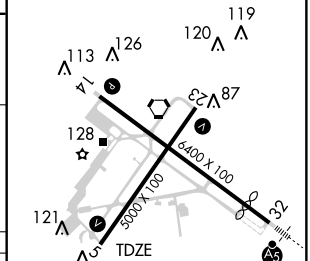
GPS or RNP-0.3 required.
NA DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 500, then climbing left turn to 2500 via course 013° to EZIZI and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 (2230-0600) 123.775 (0600-2230)	122.95 A5







CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV	420-1 372 (400-1)			420-1¼ 372 (400-1¼)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

SALISBURY, MARYLAND

AL-977 (FAA)

RNAV (GPS) RWY 14

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

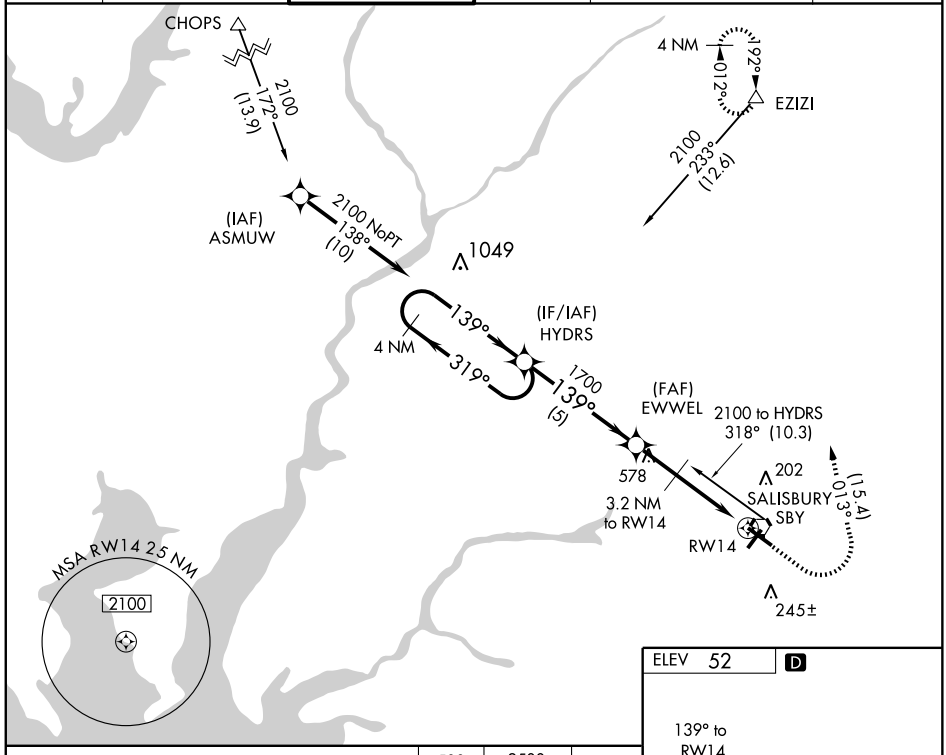
APP CRS	Rwy Idg	6400
139°	TDZE	49
	Apt Elev	52

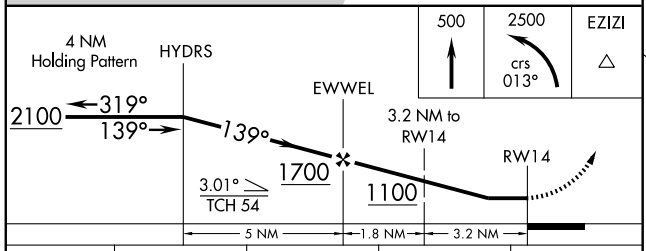
GPS or RNP-0.3 required.
DME/DME RNP-0.3 NA.

NA

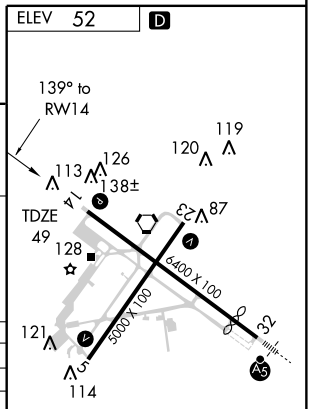
MISSED APPROACH: Climb to 500, then climbing left turn to 2500 via course 013° to EZIZI and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 (2230-0600) 123.775 (0600-2230)	122.95 A5





CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV	400-1 351 (400-1)			400-1¼ 351 (400-1¼)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)



REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5000
229°	TDZE	50
	Apt Elev	52

RNAV (GPS) RWY 23

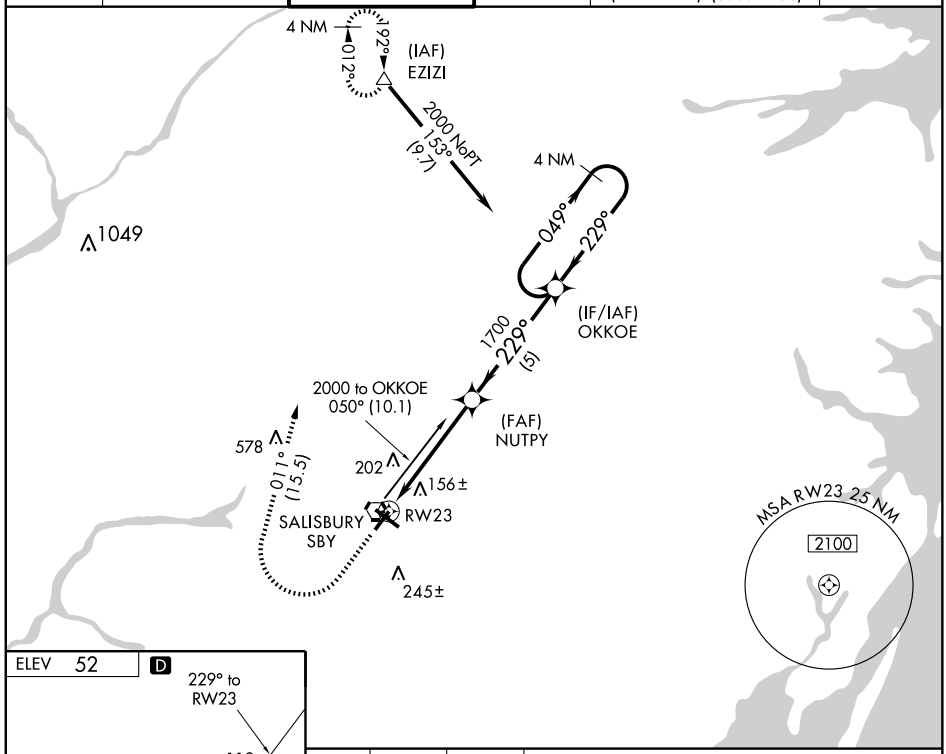
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

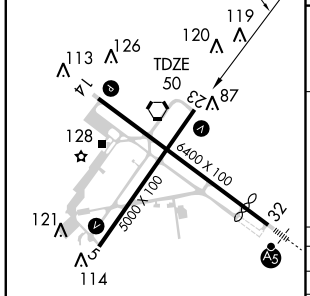
GPS or RNP-0.3 required.
DME/DME RNP-0.3 NA.

NA

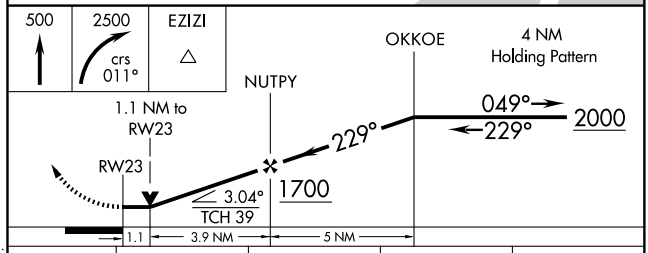
MISSED APPROACH: Climb to 500, then climbing right turn to 2500 via course 011° to EZIZI and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 123.775 (2230-0600) (0600-2230)	122.95 A5





REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L



CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV	420-1 370 (400-1)			420-1¼ 370 (400-1¼)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg	5500
CH 48912	319°	TDZE	52
W32A		Apt Elev	52

RNAV (GPS) RWY 32

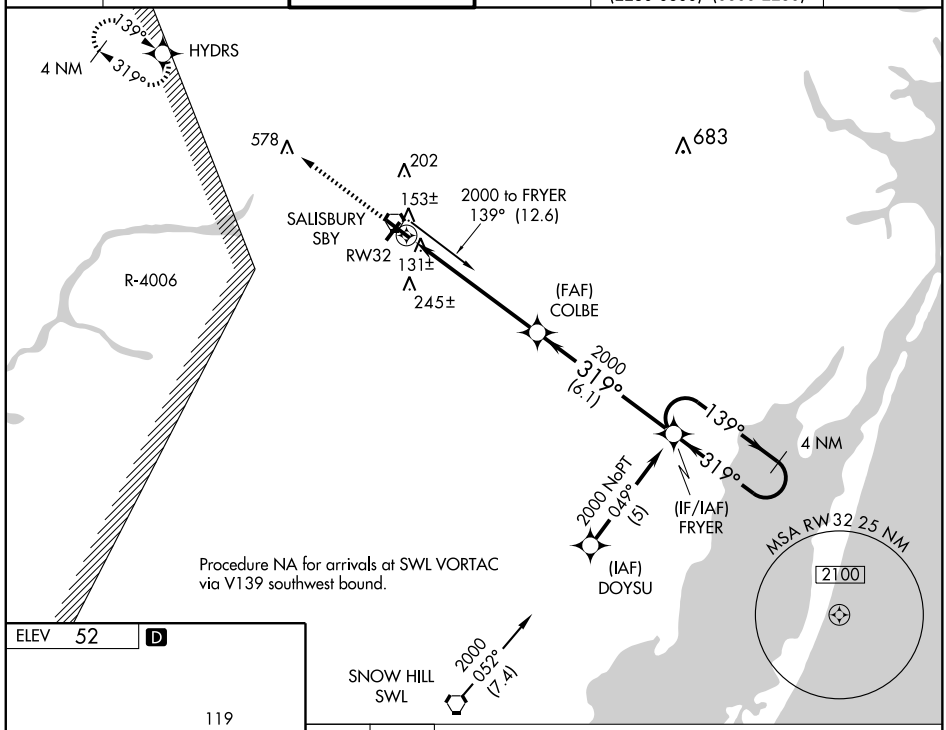
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

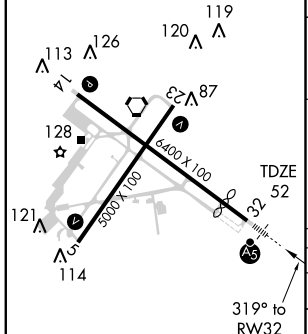
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Gerogetown altimeter setting and increase all DA 52 feet and all MDA 60 feet, increase LNAV Cat C visibility ¼ mile. For inoperative MALSR, increase LNAV Cat D visibility to 1¼. VDP and Baro-VNAV NA when using Georgetown altimeter setting.

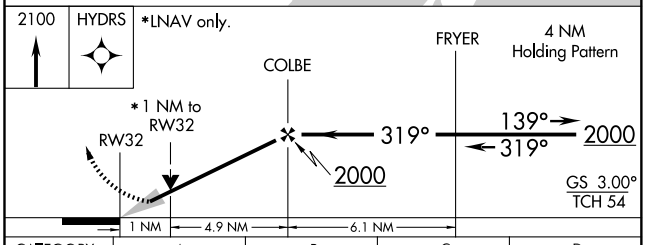
MALSR

MISSED APPROACH: Climb to 2100 direct HYDRS and hold.

ASOS	PATUXENT APP CON★	SALISBURY TOWER★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 (2230-0600) 123.775 (0600-2230)	122.95







CATEGORY	A	B	C	D
LPV DA	252-½ 200 (200-½)			
LNAV/VNAV DA	399-¾ 347 (400-¾)			
LNAV MDA	420-½ 368 (400-½)			420-1 368 (400-1)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

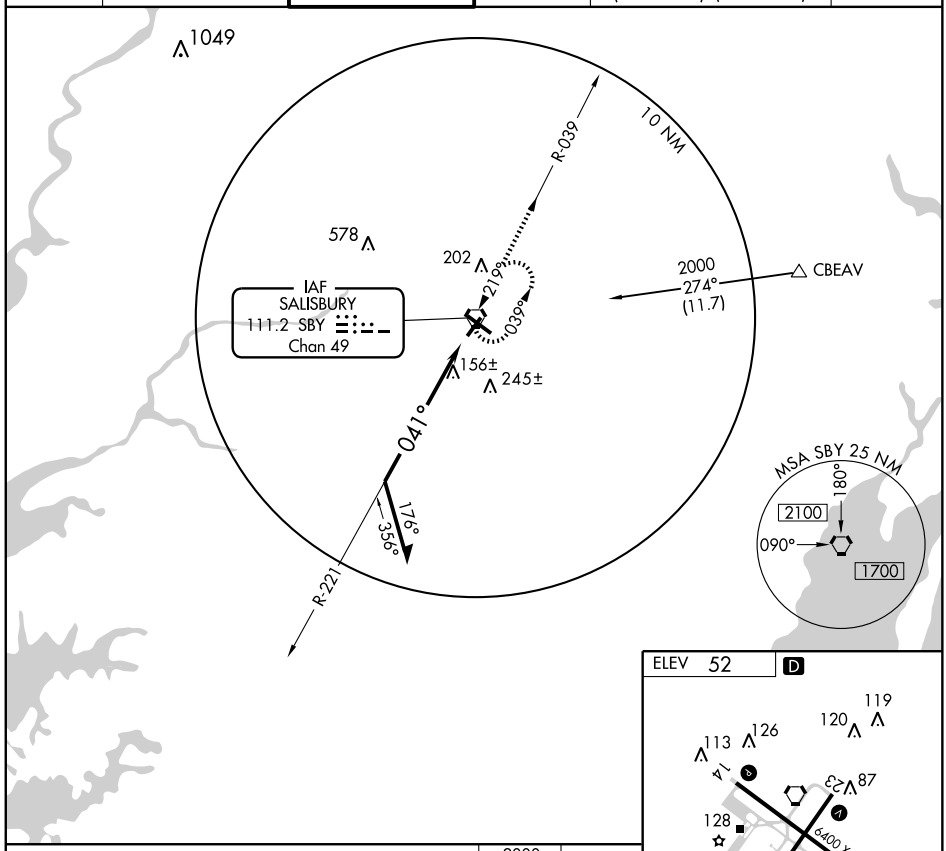
VORTAC SBY	APP CRS	Rwy Idg 5000
111.2	041°	TDZE 48
Chan 49		Apt Elev 52

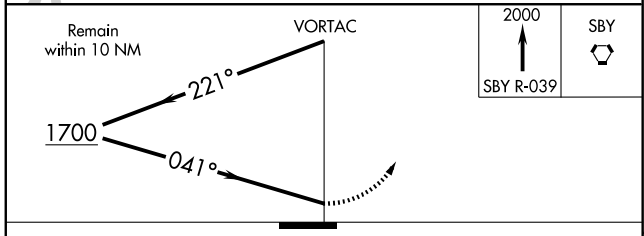
VOR RWY 5

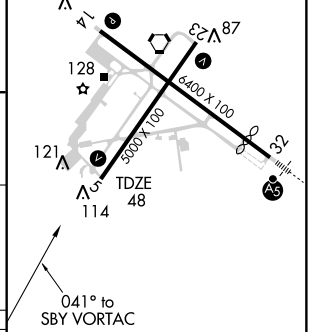
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

MISSED APPROACH: Climb to 2000 via SBY R-039 then direct SBY VORTAC and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 123.775 (2230-0600) (0600-2230)	122.95 A/S







CATEGORY	A	B	C	D
S-5	460-1 412 (500-1)		460-1¼ 412 (500-1¼)	
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC SBY	APP CRS	Rwy Idg	5000
111.2	243°	TDZE	50
Chan 49		Apt Elev	52

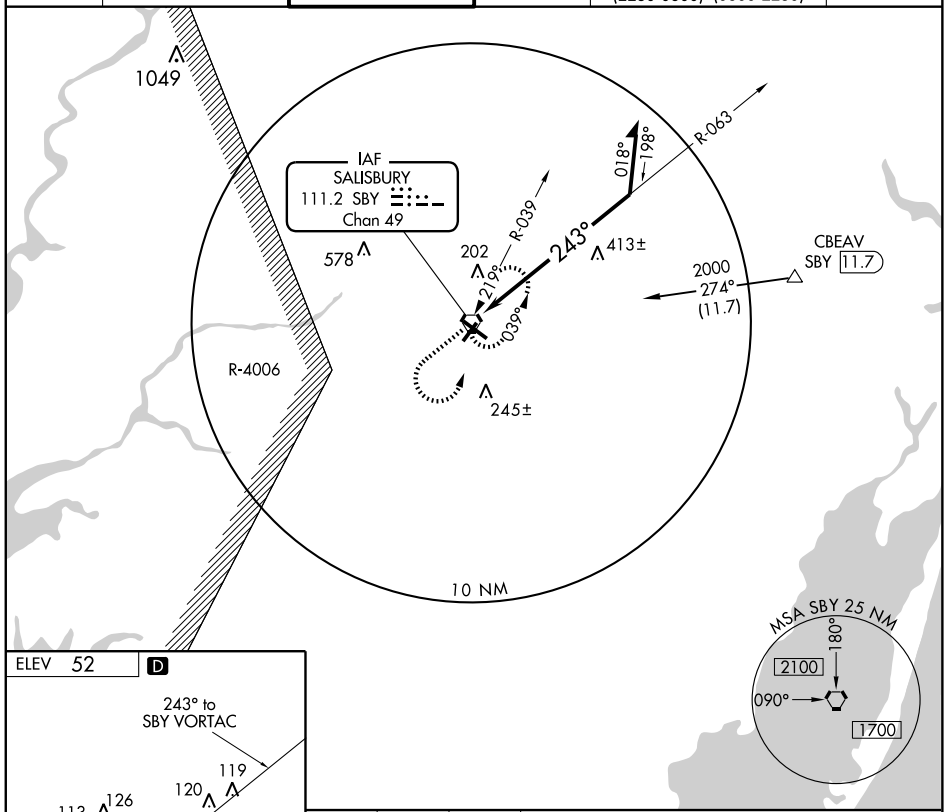
VOR RWY 23

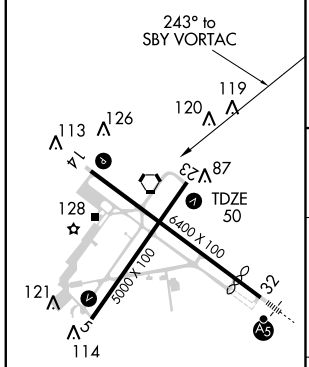
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

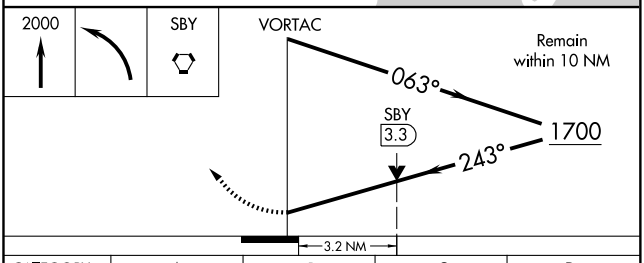
T Visibility reduction by helicopters NA.
A When local altimeter setting not received, use Georgetown altimeter setting and increase all MDA 60 feet. VDP NA when using Gerogetown altimeter setting.

MISSED APPROACH: Climb to 2000 then left turn direct SBY VORTAC and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 123.775 (2230-0600) (0600-2230)	122.95 A5







CATEGORY	A	B	C	D
S-23	1100-1¼ 1050 (1100-1¼)	1100-1½ 1050 (1100-1½)	1100-3	1050 (1100-3)
CIRCLING	1100-1¼ 1048 (1100-1¼)	1100-1½ 1048 (1100-1½)	1100-3	1048 (1100-3)

REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC SBY	APP CRS	Rwy Idg	5500
111.2	325°	TDZE	52
Chan 49		Apt Elev	52

VOR RWY 32

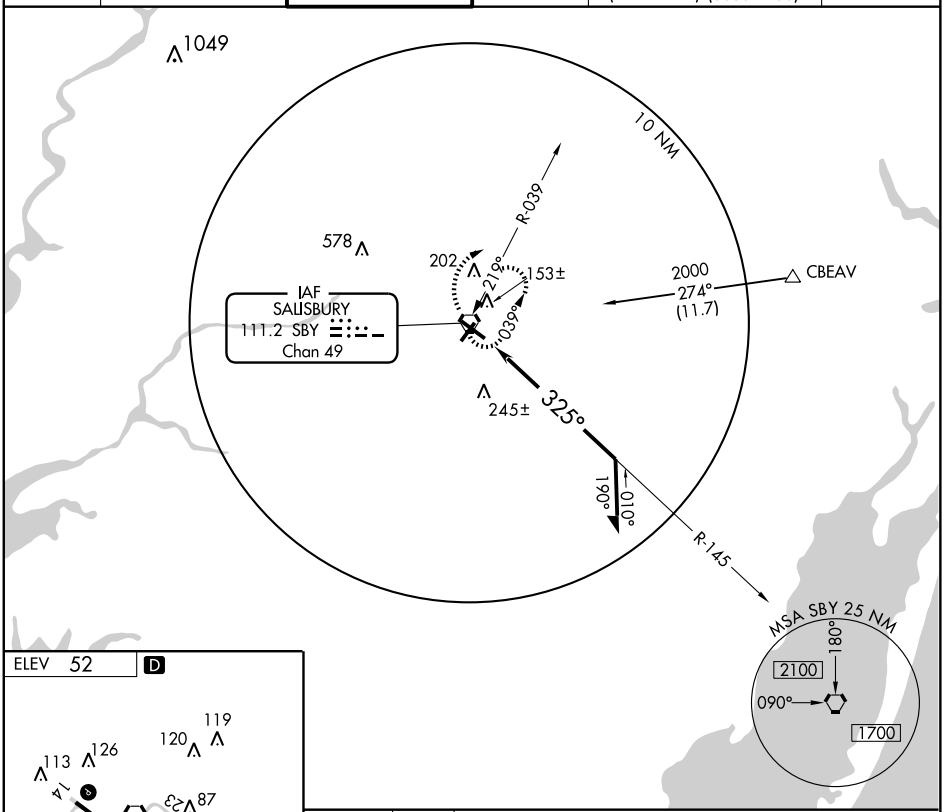
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

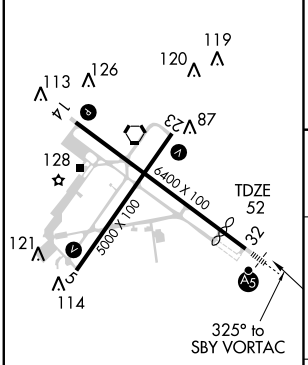
CAT D S-32 visibility increased ¼ mile for inoperative MALSR.

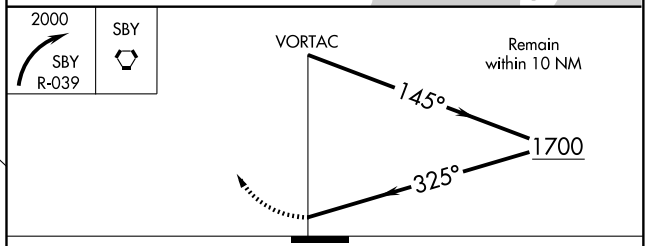
MALSR

MISSED APPROACH: Climbing right turn to 2000 via SBY R-039 then direct SBY VORTAC and hold.

ASOS	PATUXENT APP CON ★	SALISBURY TOWER ★	GND CON	CLNC DEL	UNICOM
118.325	127.95 314.0	119.425 (CTAF) L	123.775	118.55 123.775 (2230-0600) (0600-2230)	122.95







CATEGORY	A	B	C	D
S-32	460-½ 408 (500-½)		460-¾ 408 (500-¾)	460-1 408 (500-1)
CIRCLING	460-1 408 (500-1)	520-1 468 (500-1)	520-1½ 468 (500-1½)	620-2 568 (600-2)

REIL Rwys 5, 14 and 23 L
MIRL Rwy 5-23 L
HIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 11

STEVENSVILLE/BAY BRIDGE (W29)

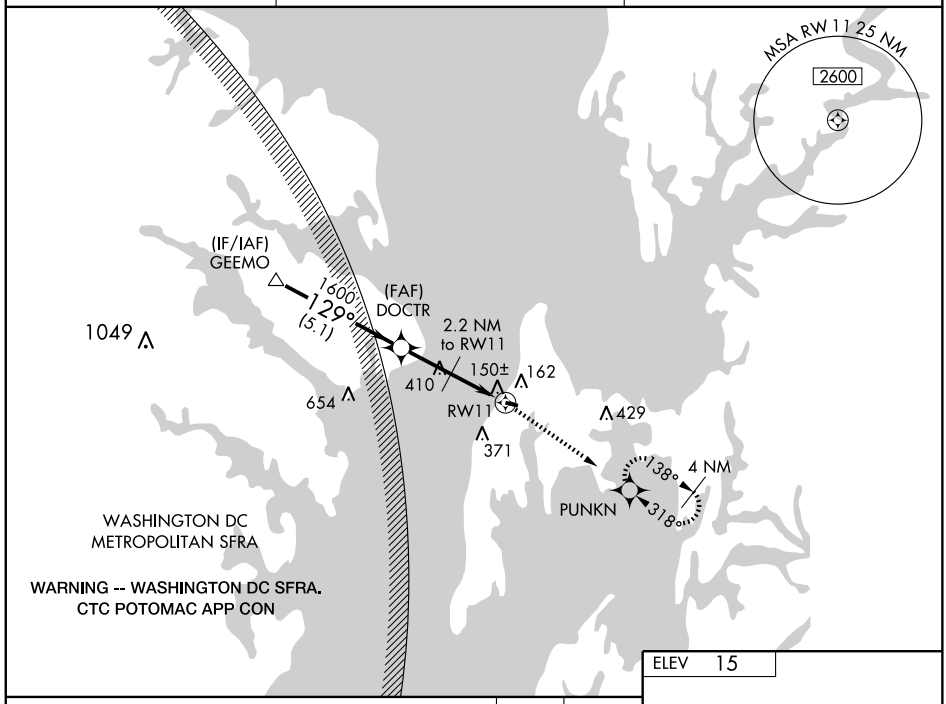
APP CRS	Rwy Idg	2903
129°	TDZE	15
	Apt Elev	15

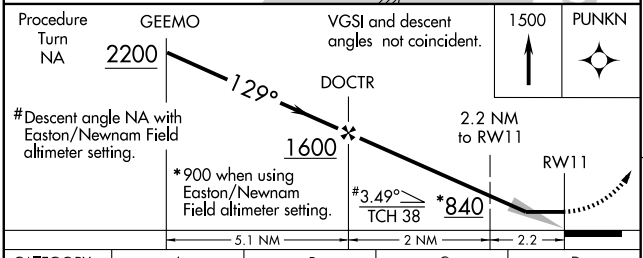
NA

Obtain local altimeter setting on CTAF; when not received, use Easton/Newnam Field altimeter setting.
DME/DME RNP-0.3 NA.

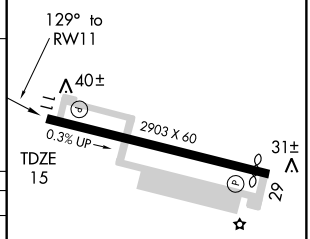
MISSED APPROACH: Climb to 1500 direct PUNKN WP and hold.

AWOS-3	POTOMAC APP CON	UNICOM
120.575	119.0 282.275	123.0 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	400-1 385 (400-1)		NA	
CIRCLING	460-1 445 (500-1)	480-1 465 (500-1)	NA	
EASTON/NEWNAM FIELD ALTIMETER SETTING MINIMUMS				
LNAV MDA	460-1 445 (500-1)		NA	
CIRCLING	500-1 485 (500-1)		NA	



REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	2713
294°	TDZE	15
	Apt Elev	15

RNAV (GPS) RWY 29

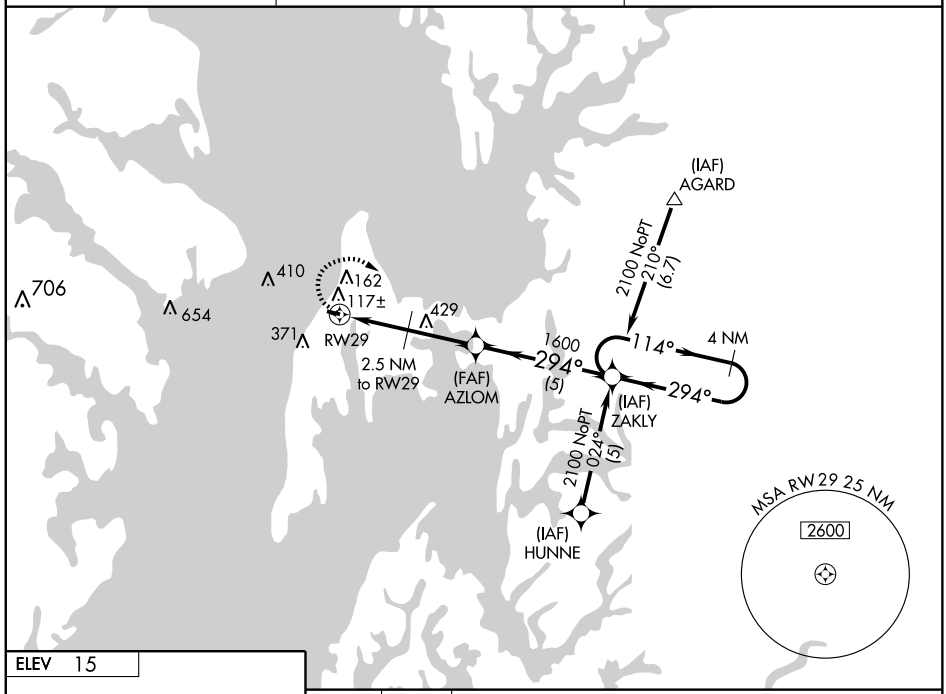
STEVENSVILLE/BAY BRIDGE (W29)

Obtain local altimeter setting on CTAF; when not received, use Easton/Newnam Field altimeter setting minimums. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

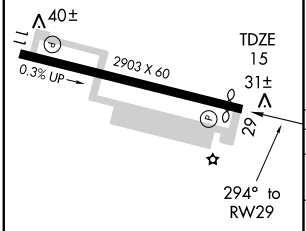
NA

MISSED APPROACH: Climbing right turn to 2100 direct ZAKLY WP and hold.

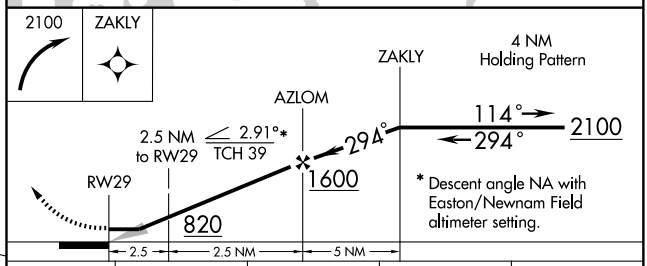
AWOS-3	POTOMAC APP CON	UNICOM
120.575	119.0 282.275	123.0 (CTAF) L



ELEV 15



REIL Rwys 11 and 29 L
MIRL Rwy 11-29 L



CATEGORY	A	B	C	D
LNAV MDA	380-1 365 (400-1)		NA	
CIRCLING	460-1 445 (500-1)	480-1 465 (500-1)	NA	
EASTON/NEWNAM FIELD ALTIMETER SETTING MINIMUMS				
LNAV MDA	420-1 405 (500-1)		NA	
CIRCLING	500-1 485 (500-1)		NA	

NE-3. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	1510
136°	TDZE	799
	Apt Elev	799

RNAV (GPS) RWY 14

WESTMINSTER / CLEARVIEW AIRPARK (2W2)

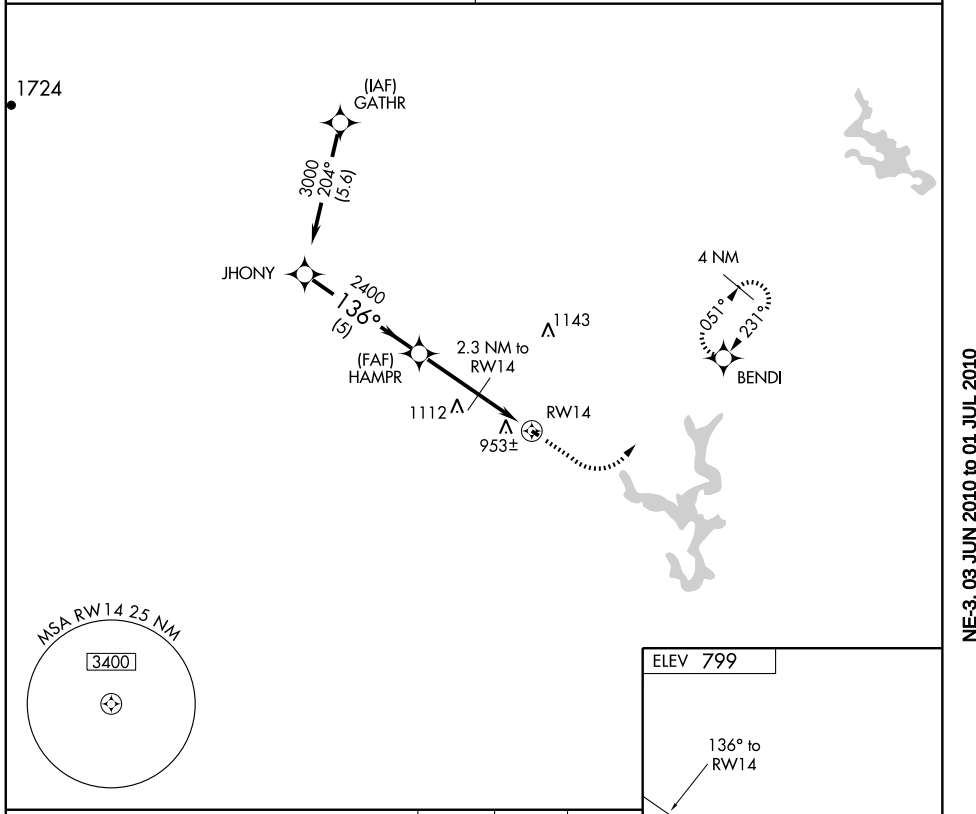
T
A NA

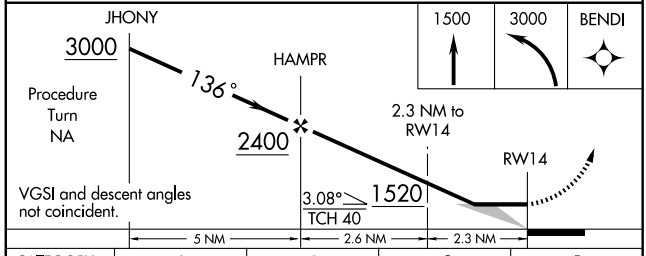
Use Carroll County Rgnl/Jack B. Poage Field altimeter setting. GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1500, then climbing left turn to 3000 direct BENDI WP and hold.

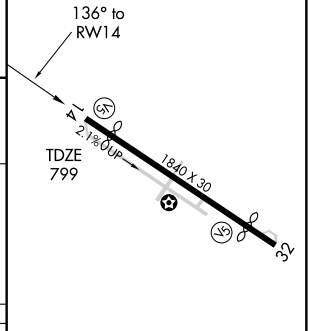
POTOMAC APP CON
125.525 291.625

UNICOM
122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1240-1 441 (500-1)	NA		
CIRCLING	1280-1 481 (500-1)	NA		



LIRL Rwy 14-32 L

NE-3. 03 JUN 2010 to 01 JUL 2010

VORTAC EMI 117.9 Chan 126	APP CRS 235°	Rwy Idg N/A TDZE N/A Apt Elev 799

VOR-A

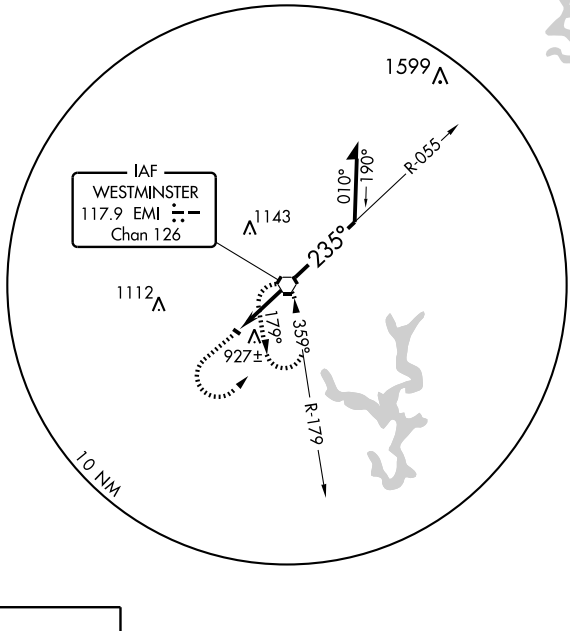
WESTMINSTER/ CLEARVIEW AIRPARK (2W2)

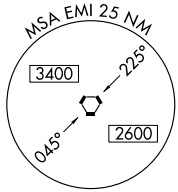
T
NA

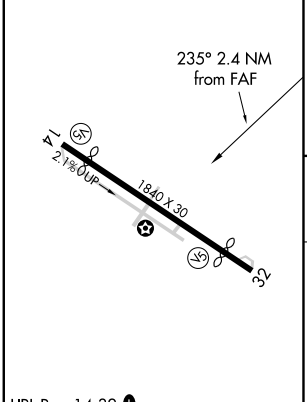
Use Carroll County Rgnl/Jack B. Poage Field altimeter setting.

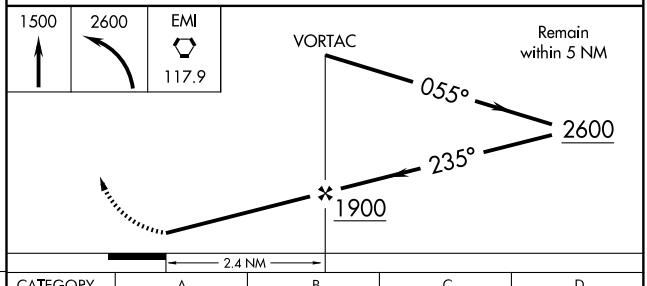
MISSED APPROACH: Climb to 1500, then climbing left turn to 2600 direct EMI VORTAC and hold.

POTOMAC APP CON	UNICOM
125.525 291.625	122.8 (CTAF) L









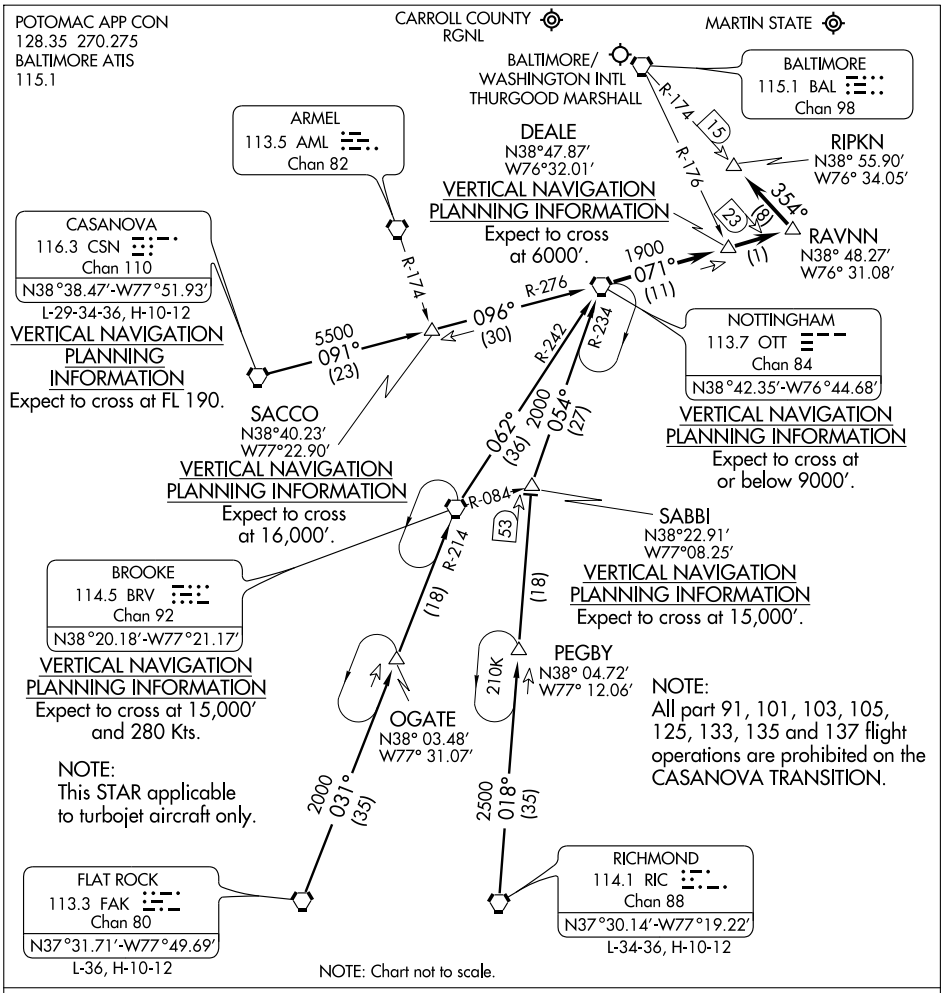
FAF to MAP 2.4 NM					
Knots	60	90	120	150	180
Min:Sec	2:24	1:36	1:12	0:58	0:48

CATEGORY	A	B	C	D
CIRCLING	1280-1 481 (500-1)	NA		

NE-3. 03 JUN 2010 to 01 JUL 2010

NOTTINGHAM SIX ARRIVAL

BALTIMORE, MARYLAND



ARRIVAL ROUTE DESCRIPTION

CASANOVA TRANSITION (CSN.OTT6): From over CSN VORTAC via CSN R-091 and OTT R-276 to OTT VORTAC. Thence

FLAT ROCK TRANSITION (FAK.OTT6): From over FAK VORTAC via FAK R-031 and BRV R-214 to BRV VORTAC, then via OTT R-242 to OTT VORTAC. Thence

RICHMOND TRANSITION (RIC.OTT6): From over RIC VORTAC via RIC R-018 to SABBI INT, then via OTT R-234 to OTT VORTAC. Thence From over OTT VORTAC via OTT R-071 to RAVNN INT, then via BAL R-174 to RIPKN INT. Expect radar vectors to final approach course after passing RIPKN INT.

WAAS	APP CRS	Rwy Idg	5100
CH 65607	159°	TDZE	789
W16A		Apt Elev	789

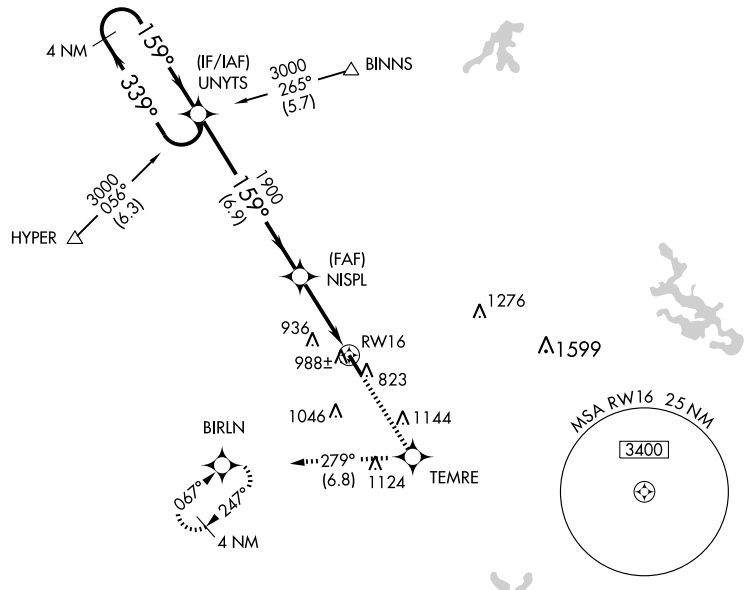
WESTMINSTER/
CARROLL COUNTY RGNL/JACK B. POAGE FIELD (DMW)

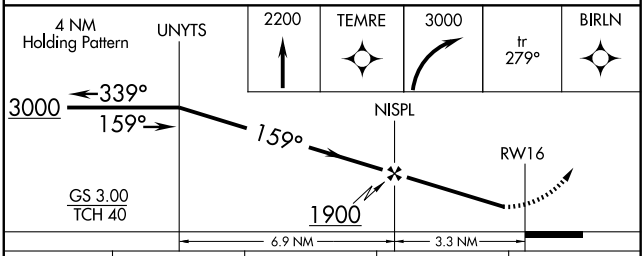
RNAV (GPS) RWY 16

DME/DME RNP-0.3 NA.

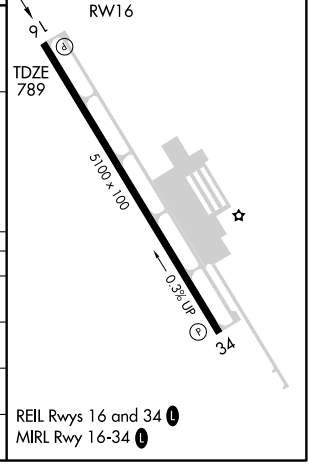
MISSED APPROACH: Climb to 2200 direct TEMRE then climbing right turn to 3000 via 279° track to BIRLN and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL (GCO)	UNICOM
121.25	125.525 291.625	121.725	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1130-1¼ 341 (400-1¼)			NA
LNAV/VNAV DA	NA			
LNAV MDA	1240-1 451 (500-1)		1240-1¼ 451 (500-1¼)	NA
CIRCLING	1300-1¼ 511 (600-1¼)		1300-1½ 511 (600-1½)	NA



NE-3. 03 JUN 2010 to 01 JUL 2010

WAAS	APP CRS	Rwy Idg 5100
CH 82117	339°	TDZE 788
W34A		Apt Elev 789

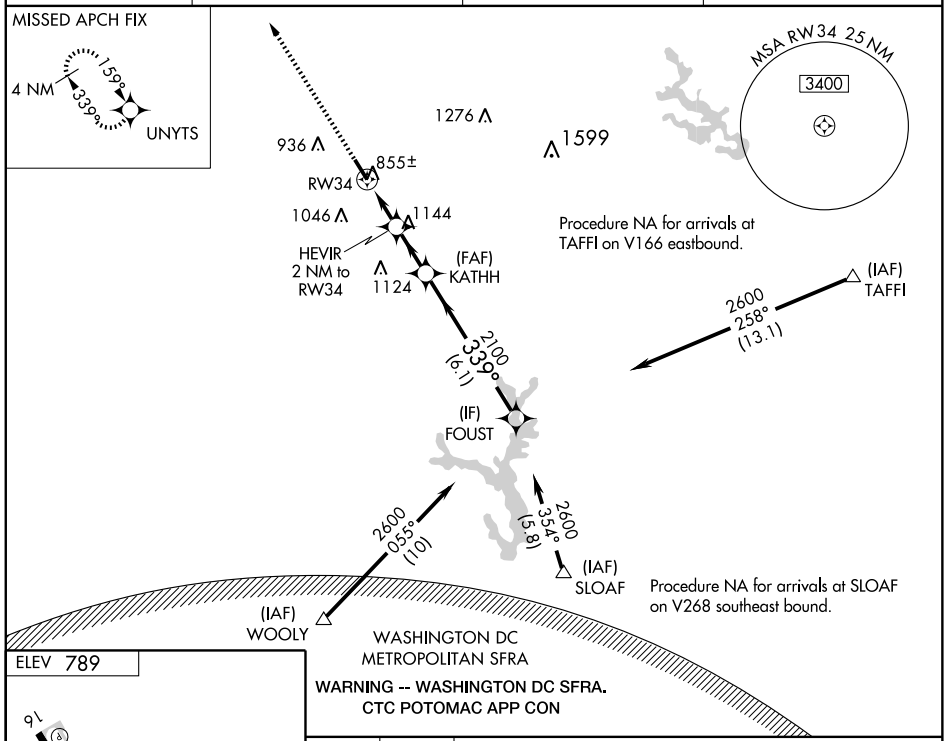
RNAV (GPS) RWY 34

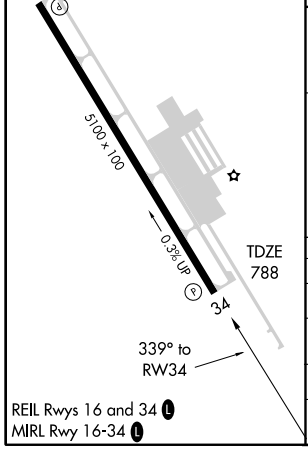
WESTMINSTER/CARROLL COUNTY RGNL/JACK B. POAGE FIELD (DMW)

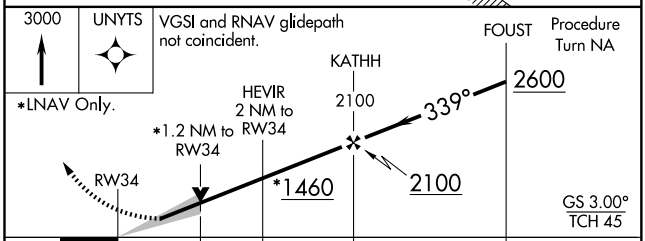
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct UNYTS and hold

AWOS-3	POTOMAC APP CON	CLNC DEL (GCO)	UNICOM
121.25	125.525 291.625	121.725	122.7 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	988- ¾ 200 (200-¾)			NA
LNAV/VNAV DA	1105-1¼ 317 (400-1¼)			NA
LNAV MDA	1180-1 392 (400-1)			NA
CIRCLING	1300-1 511 (600-1)		1300-1½ 511 (600-1½)	NA

NE-3, 03 JUN 2010 to 01 JUL 2010

VORTAC EMI 117.9 Chan 126	APP CRS 358°	Rwy Idg 5100 TDZE 788 Apt Elev 789

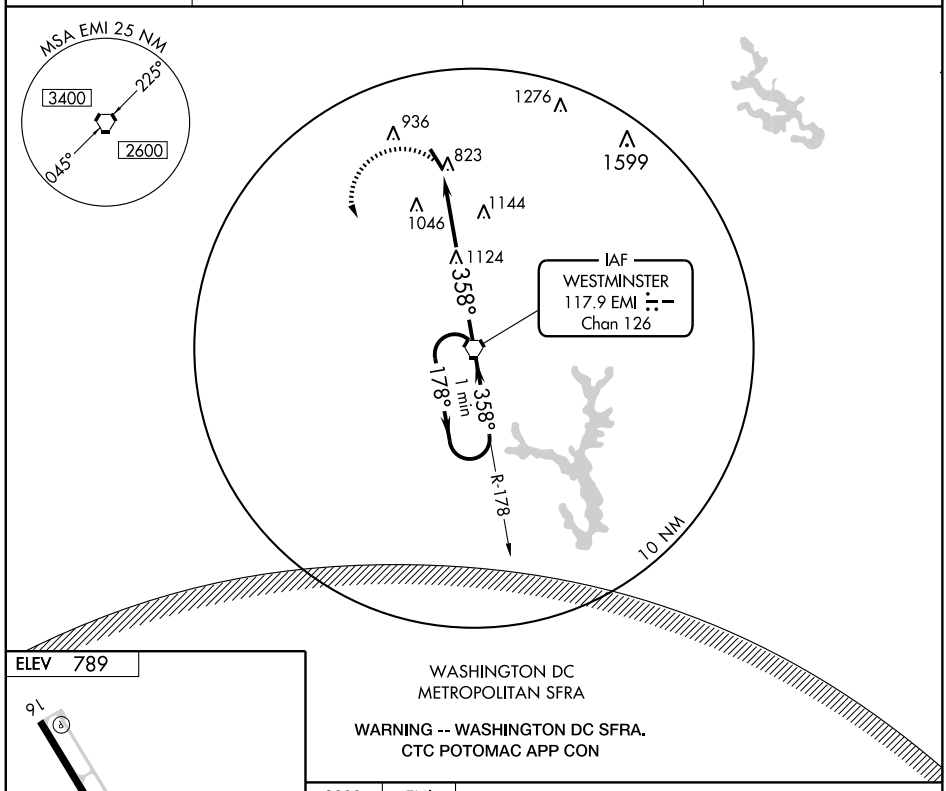
WESTMINSTER/
CARROLL COUNTY RGNL/JACK B. POAGE FIELD (DMW)

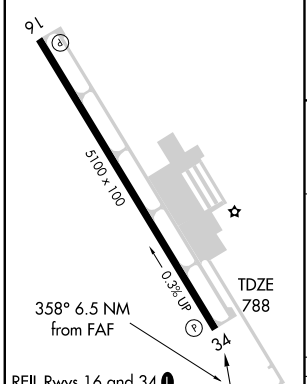
VOR RWY 34

NA

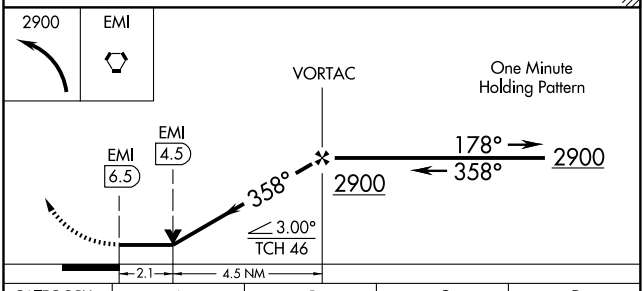
MISSED APPROACH: Climbing left turn to 2900 direct EMI VORTAC and hold.

AWOS-3	POTOMAC APP CON	CLNC DEL (GCO)	UNICOM
121.25	125.525 291.625	121.725	122.7 (CTAF) L





FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10



CATEGORY	A	B	C	D
S-34	1480-1	692 (700-1)	1480-2 692 (700-2)	NA
CIRCLING	1480-1	691 (700-1)	1480-2 691 (700-2)	NA

NE-3. 03 JUN 2010 to 01 JUL 2010